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I

SWANSCOMBE URBAN DISTRICT COUNCIL

STATISTICAL MATERIAL
FOR A REPORT ON
CERTAIN MATTERS CONCERNING PUBLIC HEALTH

FOR THE YEARS

1964 1965 and 1966

URBAN DISTRICT OF SWANSCOMBE

Interim report for the years 1964, 1965 and 1966 on certain matters concerning public health

July 1968.

TO THE CHAIRMAN AND MEMBERS OF THE COUNCIL

Mr. Chairman, Ladies and Gentlemen,

As soon as practicable after the end of each year it is the duty of the medical officer of health to make to the local authority a report for that year on the sanitary circumstances, sanitary administration, vital statistics and on any other matters on which it is considered desirable to report. The Ministry require that 5 copies of the report should be sent to them.

Swanscombe Urban District has characteristics which are unique for an urban area twenty miles from the centre of London and, having regard to the relatively small size of the population it is desirable to submit several years statistics to examination if we are to avoid missing features of interest. I have therefore aimed at submitting one report for the years 1964, 1965, 1966 and the statistics which are available are awaiting interpretation. I should add that with three other districts to serve this arrangement is also the best that is practicable.

The time that has elapsed since the end of 1964 has been punctuated from time to time by reminders from the Ministry that no report for these years has yet been received by them. The Public Health Committee of the Council have been understanding on this matter and I thank them for their patience. However, at the last meeting of the Public Health Committee, when the latest reminder was before them, they felt that it would be expedient to mollify the Ministry by submitting to them the statistical material which was already available without further delay. Any commentary that was appropriate to the statistics could be submitted later.

Therefore I submit herewith the statistical material for the years 1964, 1965, 1966.

This report contains much material provided by officers of other departments and other authorities or organizations. The facts on many environmental matters are the product of work by the Council's Public Health Inspectors. The presentation of the statistical material is a product of the patience of the clerical assistant concerned. I thank these colleagues for their co-operation.

On behalf of my colleagues in the public health office and myself I wish to thank the Chairman and Members of the Public Health Committee for their support and interest during the period under review.

I am, Mr. Chairman, Ladies and Gentlemen,

Your obedient servant,

John H. Hadson.

Medical Officer of Health.

TABLE I.

SOCIAL CONDITIONS

SWANSCOMBE U.D.

Area (acres)		2,142
Population (Census 1931)		8,541
" (Census 1951)		8,433
" (Census 1961)		8,775
Mid-year home population 1964 (Registrar General's estimate)		9,200
" " " " 1965 (" " ")		9,220
" " " " 1966 (" " ")		9,330
Number of domestic and agricultural dwelling houses assessed to rates:	31.3.64	2,765
	31.3.65	2,790
	31.3.66	2,849
Rateable value:	31.3.64	£568,146
	31.3.65	£570,690
	31.3.66	£540,021
Sum represented by 1d. rate:	31.3.64	£2,155
	31.3.65	£2,232
	31.3.66	£2,124

POPULATION. Growth of the population is due to natural increase (i.e. excess of births over deaths) and immigration, both being related to new houses built.

Year	1959	1960	1961	1962	1963	1964	1965	1966
Est. mid-year home population	8,940	9,010	8,910	9,040	9,110	9,200	9,220	9,330
Increase or decrease on previous year	-10	+70	-100	+130	+70	+90	+20	+110
Excess of births over deaths	23	48	50	62	58	102	71	86
Immigration or emigration	-33	+22	-150	+68	+12	-12	-51	+24
Houses built	43	93	91	58	38	44	100	59

COMPARABILITY FACTORS. When local crude birth and death rates are multiplied by the area comparability factors they are comparable with the rate for England and Wales or with the adjusted rate for any other area. In the last eight years the factors for births (governed by the proportion of women aged 18-44 years) and for deaths (governed by the proportions of all age groups) have been as follows:-

Year	1959	1960	1961	1962	1963	1964	1965	1966
Births	0.93	0.93	0.93	0.93	0.97	0.97	0.97	0.97
Deaths	1.23	1.23	1.23	1.23	1.22	1.22	1.21	1.21

UNEMPLOYMENT. The number unemployed aged 18 years and over of Gravesend and district registered in the first half of December with the Employment Exchange were:

	1959	1960	1961	1962	1963	1964	1965	1966
Males	342	268	309	525	473	223	181	541
Females	145	76	85	134	101	85	65	115
Persons	487	344	394	659	574	308	246	656

ILLEGITIMATE BIRTH RATE.

	1959	1960	1961	1962	1963	1964	1965	1966
Northfleet U.D.	22	44	32	38	38	51	39	55
Swanscombe U.D.	29	15	37	39	64	56	34	24
Dartford B.	37	35	33	40	46	55	50	58
Dartford R.D.	30	30	22	29	30	37	44	54
Kent A.C.	45	46	49	53	56	62	68	
England & Wales	51	54	59	66	69	72	77	

TABLE I - (continued) SWANSCOMBE

POPULATION OF YOUNG PERSONS. A guide is necessary to the young population in the district in order that we may form an idea from vaccinations done of the proportion who have been given immunity to certain diseases. A rough estimate can be made from the births which have occurred in the district in the past. This assumes a stable population and does not take into account deaths after one year of age or the balance of those coming into the district over those leaving.

Births Year	Infant No. deaths	Infants surviving to 1 year	1964	1965	1966
1966	164	2	162	-2	-1	0
1965	148	2	146	-1	0	1
1964	178	3	175	0	1	2
1963	156	1	155	1	2	3
1962	154	4	150	2	3	4
1961	138	1	137	3	4	5
1960	136	4	132	4	5	6
1959	105	5	100	5	6	7
1958	128	4	124	6	7	8
1957	123	3	120	7	8	9
1956	141	3	138	8	9	10
1955	126	3	123	9	10	11
1954	130	5	125	10	11	12
1953	142	3	139	11	12	13
1952	131	4	127	12	13	14
1951	136	5	131	13	14	15
1950	148	4	144	14	15	16
1949	153	2	151	15	16	17
1948	161	2	159	16	17	18
1947	200	2	198	17	18	19
1946	170	6	164	18	19	20

Approximate Population

Age Dec. 31st	1966	1965	1964
0-4 yrs	788	763	749
5-11 yrs	874	862	869
12-15 yrs	522	541	553
16-18 yrs	454	672	531

Population of children	Dec. 31st	Birth years	Est. population
(i) aged 5-11 years	1961	1950-56	927
	1962	1951-57	903
	1963	1952-58	896
	1964	1953-59	869
	1965	1954-60	862
	1966	1955-61	874
(ii) aged 5-14 years	1965	1951-60	1259
	1966	1952-61	1265

NATURAL INCREASE

	Births	Deaths	Natural increase	Population	Rate of natural increase per 1000 population
1954	130	79	51	8770	5.8
1955	126	80	46	8790	5.2
1956	141	81	60	8900	6.8
1957	123	78	45	8930	5.0
1958	128	83	45	8950	5.0
1959	105	82	23	8940	2.6
1960	136	88	48	9010	5.3
1961	138	88	50	8910	5.6
1962	154	92	62	9040	6.9
1963	156	98	58	9110	6.4
1964	178	76	102	9200	11.1
1965	148	67	81	9220	8.8
1966	164	78	86	9330	9.2

TABLE II BIRTHS & DEATHS, 1964, 1965 & 1966

Swanscombe U.D.

	1964			1965			1966			1964/66
	M	F	P	M	F	P	M	F	P	P
Live Births:										
Legitimate	90	78	168	80	63	143	74	86	160	471
Illegitimate	5	5	10	2	3	5	2	2	4	9
	95	83	178	82	66	148	76	88	164	480
Deaths, all causes:	41	35	76	42	25	67	40	38	78	221
Pregnancy, child-birth, abortion:	-	-	-	-	-	-	-	-	-	-
Still Births:										
Legitimate	1	-	1	4	-	4	-	2	2	7
Illegitimate	-	1	1	-	-	-	-	-	-	1
	1	1	2	4	-	4	-	2	2	8
Deaths 0-6 days:										
Legitimate	-	1	1	1	1	2	2	-	2	5
Illegitimate	-	-	-	-	-	-	-	-	-	-
	-	1	1	1	1	2	2	-	2	5
Deaths 7-27 days:										
Legitimate	-	1	1	-	-	-	-	-	-	1
Illegitimate	-	-	-	-	-	-	-	-	-	-
	-	1	1	-	-	-	-	-	-	1
Deaths 28-364 days:										
Legitimate	-	1	1	-	-	-	-	-	-	1
Illegitimate	-	-	-	-	-	-	-	-	-	-
	-	1	1	-	-	-	-	-	-	1
Total under 1 year:										
Legitimate	-	3	3	1	1	2	2	-	2	7
Illegitimate	-	-	-	-	-	-	-	-	-	-
	-	3	3	1	1	2	2	-	2	7

	Swanscombe U.D.				England & Wales		
	1964	1965	1966	1964-66	1964	1965	1966
Rates per 1,000 Home Population							
Crude live birth rate	19.4	16.1	17.6	17.7	18.5	18.1	17.7
Live birth rate adjusted by C.F.	18.8	15.6	17.1	17.2	18.5	18.1	17.7
Crude death rate	8.3	7.3	8.5	8.0	11.3	11.5	11.7
Death rate adjusted by C.F.	10.1	8.8	10.3	9.7	11.3	11.5	11.7
Rates per 1,000 Live and Still Births							
Maternal death rate	-	-	-	-	0.26	0.25	
Stillbirth rate	11.2	26.3	12.0	16.1	16.3	15.8	15.4
Perinatal death rate (s.bs. & deaths 0-6 days)	16.8	39.7	24.1	26.2	28.2	26.9	26.3
Rates per 1,000 Live Births							
Early neonatal death rate (deaths 0-6 days)	5.6	13.5	12.2	10.2	12.0	11.3	11.1
Neonatal death rate (deaths 0-27 days)	11.3	13.5	12.2	12.3	13.8	13.0	12.9
Infant death rate (deaths 0-364 days)	16.9	13.5	12.2	14.3	19.9	19.0	19.0

TABLE IIIA CAUSES OF DEATH ACCORDING TO SEX

Swanscombe U.D.

Registrar General's Return

	1964				1965				1966			
	M	F	P		M	F	P		M	F	P	
All causes	41	35	76		42	25	67		40	38	78	
Tuberculosis, respiratory	1	-	1		-	-	-		1	1	2	
Tuberculosis, other	-	-	-		-	-	-		-	-	-	
Syphilitic disease	-	-	-		-	-	-		-	-	-	
Diphtheria	-	-	-		-	-	-		-	-	-	
Whooping Cough	-	-	-		-	-	-		-	-	-	
Meningococcal infections	-	-	-		-	-	-		-	-	-	
Acute poliomyelitis	-	-	-		-	-	-		-	-	-	
Measles	-	-	-		-	-	-		-	-	-	
Other infect. & parasitic dis.	-	5	5		-	-	-		-	1	1	
Malignant neoplasm, stomach	1	-	1		2	2	4		2	1	3	
Malig. neopl. lung, bronchus	4	-	4		4	-	4		5	1	6	
Malignant neoplasm, breast	-	-	-	= 10	-	1	1	= 14	-	1	1	= 21
Malignant neoplasm, uterus	-	-	-		-	-	-		-	-	-	
Other malig. & lymph. neopl's.	5	-	5		4	1	5		4	6	10	
Leukaemia, aleukaemia	-	-	-		-	-	-		1	-	1	
Diabetes	1	3	4		-	1	1		1	2	3	
Vascular lesions of nervous system	6	6	12		5	5	10		6	4	10	
Coronary disease, angina	14	5	19		11	3	14		9	13	22	
Hypertension with heart disease	-	-	-	= 25	1	2	3	= 24	-	-	-	= 24
Other heart disease	1	2	3		3	-	3		1	1	2	
Other circulatory disease	-	3	3		-	4	4		-	-	-	
Influenza	-	-	-		-	-	-		-	-	-	
Pneumonia	1	3	4	= 8	5	-	5	= 9	2	4	6	= 11
Bronchitis	3	1	4		2	1	3		4	1	5	
Other dis. of resp. system	-	-	-		1	-	1		-	-	-	
Ulcer of stomach & duodenum	-	-	-		-	-	-		-	-	-	
Gastritis, enteritis & diarrhoea	-	-	-		-	-	-		-	-	-	
Nephritis and nephrosis	-	-	-		-	-	-		-	-	-	
Hyperplasia of prostate	-	-	-		-	-	-		-	-	-	
Pregnancy, childbirth, abortion	-	-	-		-	-	-		-	-	-	
Congenital malformations	-	1	1		-	-	-		-	-	-	
Other def. and ill-def. diseases	3	5	8		2	4	6		4	2	6	
Motor vehicle accidents	-	-	-		1	1	2		-	-	-	
All other accidents	1	1	2		-	-	-		-	-	-	
Suicide	-	-	-		1	-	1		-	-	-	
Homicide and operations of war	-	-	-		-	-	-		-	-	-	

TABLE IIIB (i) CAUSES OF DEATH ACCORDING TO AGE

Swanscombe U.D.

Registrar General's Return

1964

1964

Males	All ages	- 4 wks	4 wks - 1 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75+	
All causes	41	-	- 1	-	-	2	1	4	6	15	12	
Tuberculosis, respiratory	1	-	- -	-	-	-	-	1	-	-	-	
Malignant neoplasm, stomach	1	-	- -	-	-	-	-	-	-	-	1	)
Malignant neoplasm, lung, bronchus	4	-	- -	-	-	-	-	-	1	1	2	)= 10
Other malignant and lymphatic neoplasms	5	-	- 1	-	-	-	-	-	-	3	1	)
Diabetes	1	-	- -	-	-	-	-	-	1	-	-	
Vascular lesions of nervous system	6	-	- -	-	-	-	-	1	1	3	1	
Coronary disease, angina	14	-	- -	-	-	-	1	2	3	5	3	)
Other heart disease	1	-	- -	-	-	1	-	-	-	-	-	)= 15
Pneumonia	1	-	- -	-	-	-	-	-	-	-	1	)
Bronchitis	3	-	- -	-	-	-	-	-	-	1	2	)= 4
Other defined and ill-defined diseases	3	-	- -	-	-	-	-	-	-	2	1	
All other accidents	1	-	- -	-	-	1	-	-	-	-	-	
Females												
All causes	35	2	1 -	-	-	-	-	1	4	8	19	
Other malignant and lymphatic neoplasms	5	-	- -	-	-	-	-	1	1	-	3	) 5
Diabetes	3	-	- -	-	-	-	-	-	-	2	1	
Vascular lesions of nervous system	6	-	- -	-	-	-	-	-	2	2	2	
Coronary disease, angina	5	-	- -	-	-	-	-	-	-	2	3	)
Other heart disease	2	-	- -	-	-	-	-	-	-	-	2	)= 10
Other circulatory disease	3	-	- -	-	-	-	-	-	1	1	1	)
Pneumonia	3	-	- -	-	-	-	-	-	-	-	3	)
Bronchitis	1	-	- -	-	-	-	-	-	-	1	-	)= 4
Congenital malformations	1	-	1 -	-	-	-	-	-	-	-	-	
Other defined and ill-defined diseases	5	2	- -	-	-	-	-	-	-	-	3	
All other accidents	1	-	- -	-	-	-	-	-	-	-	1	

TABLE IIIB (ii) CAUSES OF DEATH ACCORDING TO AGE

Swanscombe U.D.

Registrar General's Return

1965

1965

Males	All ages	- 4 wks	4 wks - 1 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75+	
All causes	42	1	- -	-	-	1	-	4	9	11	16	
Malignant neoplasm, stomach	2	-	- -	-	-	-	-	-	-	1	1	
Malignant neoplasm, lung, bronchus	4	-	- -	-	-	-	-	-	1	3	-	= 10
Other malignant and lymphatic neoplasms	4	-	- -	-	-	-	-	-	2	-	2	
Vascular lesions of nervous system	5	-	- -	-	-	-	-	-	1	3	1	
Coronary disease, angina	11	-	- -	-	-	-	-	4	1	2	4	
Hypertension with heart disease	1	-	- -	-	-	-	-	-	-	-	1	= 15
Other heart disease	3	-	- -	-	-	-	-	-	1	1	1	
Pneumonia	5	-	- -	-	-	-	-	-	-	1	4	
Bronchitis	2	-	- -	-	-	-	-	-	1	-	1	= 8
Other diseases of respiratory system	1	-	- -	-	-	-	-	-	1	-	-	
Other defined and ill-defined diseases	2	1	- -	-	-	-	-	-	-	-	1	
Motor vehicle accidents	1	-	- -	-	-	1	-	-	-	-	-	
Suicide	1	-	- -	-	-	-	-	-	1	-	-	
Females												
All causes	25	1	- -	-	-	-	-	3	3	7	11	
Malignant neoplasm, stomach	2	-	- -	-	-	-	-	-	-	1	1	
Malignant neoplasm, breast	1	-	- -	-	-	-	-	1	-	-	-	= 4
Other malignant and lymphatic neoplasms	1	-	- -	-	-	-	-	1	-	-	-	
Diabetes	1	-	- -	-	-	-	-	-	-	1	-	
Vascular lesions of nervous system	5	-	- -	-	-	-	-	-	-	-	5	
Coronary disease, angina	3	-	- -	-	-	-	-	-	-	1	2	
Hypertension with heart disease	2	-	- -	-	-	-	-	-	1	1	-	= 9
Other circulatory disease	4	-	- -	-	-	-	-	-	1	3	-	
Bronchitis	1	-	- -	-	-	-	-	1	-	-	-	
Other defined and ill-defined diseases	4	1	- -	-	-	-	-	-	1	-	2	
Motor vehicle accidents	1	-	- -	-	-	-	-	-	-	-	1	

TABLE IIIB (iii) CAUSES OF DEATH ACCORDING TO AGE

Swanscombe U.D.

Registrar General's Return

1966

1966

	All ages	- 4 wks	4 wks - 1 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75+	
Males												
All causes	40	2	- -	-	-	-	-	2	11	11	14	
Tuberculosis, respiratory	1	-	- -	-	-	-	-	-	1	-	-	
Malignant neoplasm, stomach	2	-	- -	-	-	-	-	-	-	2	-	
Malignant neoplasm, lung, bronchus	5	-	- -	-	-	-	-	-	2	2	1	= 12
Other malignant and lymphatic neoplasms	4	-	- -	-	-	-	-	-	1	1	2	
Leukaemia, aleukaemia	1	-	- -	-	-	-	-	1	-	-	-	
Diabetes	1	-	- -	-	-	-	-	-	-	1	-	
Vascular lesions of nervous system	6	-	- -	-	-	-	-	1	2	1	2	
Coronary disease, angina	9	-	- -	-	-	-	-	-	2	2	5	= 10
Other heart disease	1	-	- -	-	-	-	-	-	1	-	-	
Pneumonia	2	-	- -	-	-	-	-	-	-	-	2	= 6
Bronchitis	4	-	- -	-	-	-	-	-	2	-	2	
Other defined and ill-defined diseases	4	2	- -	-	-	-	-	-	-	2	-	
Females												
All causes	38	-	- -	-	-	-	3	2	7	10	16	
Tuberculosis, respiratory	1	-	- -	-	-	-	1	-	-	-	-	
Other infective and parasitic diseases	1	-	- -	-	-	-	-	-	1	-	-	
Malignant neoplasm, stomach	1	-	- -	-	-	-	-	-	-	-	1	
Malignant neoplasm, lung, bronchus	1	-	- -	-	-	-	-	-	-	-	1	= 9
Malignant neoplasm, breast	1	-	- -	-	-	-	-	-	-	-	1	
Other malignant and lymphatic neoplasms	6	-	- -	-	-	-	-	-	4	1	1	
Diabetes	2	-	- -	-	-	-	-	-	-	2	-	
Vascular lesions of nervous system	4	-	- -	-	-	-	-	2	-	1	1	
Coronary disease, angina	13	-	- -	-	-	-	1	-	1	6	5	= 14
Other heart disease	1	-	- -	-	-	-	-	-	1	-	-	
Pneumonia	4	-	- -	-	-	-	-	-	-	-	4	= 5
Bronchitis	1	-	- -	-	-	-	-	-	-	-	1	
Other defined and ill-defined diseases	2	-	- -	-	-	-	1	-	-	-	1	

TABLE IV - MAIN CAUSES OF DEATH

SWANSCOMBE U.D. (R.G.) Year	All Causes	Main Causes	Other Causes	Circ. Disease	Cancer	Vasc. Les.N.S.	Resp. Dis.
All ages							
1964	76	60	16	25	15	12	8
1965	67	57	10	24	14	10	9
1966	78	66	12	24	21	10	11
Percentage of all causes							
1964	100%	79%	21%	33%	20%	16%	11%
1965	100%	85%	15%	36%	21%	15%	13%
1966	100%	85%	15%	31%	27%	13%	14%
Ages 0-74							
1964	45	35	10	16	8	9	2
1965	40	34	6	16	10	4	4
1966	48	37	11	14	14	7	2
Percentages of all causes							
1964	100%	78%	22%	36%	18%	20%	4%
1965	100%	85%	15%	40%	25%	10%	10%
1966	100%	77%	23%	29%	29%	15%	4%
Ages 75+							
1964	31	15	6	9	7	3	6
1965	27	23	4	8	4	6	5
1966	30	29	1	10	7	3	9
Percentages of all causes							
1964	100%	81%	19%	29%	23%	10%	19%
1965	100%	85%	15%	30%	15%	22%	19%
1966	100%	97%	3%	33%	23%	10%	30%
NORTHFLEET U.D. (Locally compiled)							
All ages							
1964	213	171	42	82	39	23	27
1965	215	187	28	81	53	26	27
1966	257	210	47	89	51	41	29
Percentages of all causes							
1964	100%	80%	20%	39%	18%	11%	13%
1965	100%	87%	13%	38%	25%	12%	13%
1966	100%	81%	19%	34%	20%	16%	11%
Ages 0-74							
1964	136	104	32	49	29	12	14
1965	132	113	19	51	36	10	16
1966	160	127	33	52	35	22	18
Percentages of all causes							
1964	100%	76%	24%	36%	21%	9%	10%
1965	100%	86%	14%	38%	27%	8%	12%
1966	100%	79%	21%	33%	22%	14%	11%
Ages 75+							
1964	77	67	10	33	10	11	13
1965	83	74	9	30	17	16	11
1966	97	83	14	37	16	19	11
Percentages of all causes							
1964	100%	87%	13%	43%	13%	14%	17%
1965	100%	89%	11%	36%	20%	19%	13%
1966	100%	86%	14%	38%	17%	20%	11%
ENGLAND AND WALES							
All ages							
1966	563,624	471,863	91,761	207,924	108,158	78,824	76,957
Percentages of all causes							
1966	100%	83%	16%	37%	19%	14%	13%
Ages 0-74							
1966	317,462	254,849	62,613	104,655	79,110	32,826	38,258
Percentages of all causes							
1966	100%	80%	20%	33%	25%	10%	12%
Ages 75+							
1966	246,162	217,014	29,148	103,269	29,048	45,998	38,699
Percentage all causes: 1966	100%	88%	12%	42%	12%	18%	16%

TABLE V - NOTIFIABLE DISEASES OTHER THAN TUBERCULOSIS 1964 - 66

SWANSCOMBE U. D.

	Ages in years						Ages	All
	-1	1-4	5-14	15-44	45-64	65+	Unknown	Ages
DYSENTERY								
1965 4th Quarter			1					1
FOOD POISONING								
1965 3rd Quarter					1			1
MEASLES								
1964 1st Quarter		1						1
2nd Quarter	1	1						2
4th Quarter	2	7	5					14
1965 1st Quarter	3	28	27				1	59
2nd Quarter	2	21	29				1	53
4th Quarter		2						2
1966 1st Quarter	1							1
2nd Quarter	1							1
3rd Quarter		1						1
4th Quarter	1	10	9					20
PNEUMONIA								
1964 4th Quarter						1		1
SCARLET FEVER								
1965 2nd Quarter			2					2
3rd Quarter		1						1
1966 2nd Quarter			1					1
TYPHOID FEVER								
1964 1st Quarter				1				1
WHOOPING COUGH								
1964 1st Quarter	1		5					6
1966 3rd Quarter		1	1					2

In addition to the above statutory notifications, the following have been notified informally from schools (form 22 M.1).

	1964	1965	1966
Mumps	57	-	32
Chicken Pox	12	12	-
Measles	36	18	1
Scarlet Fever	1	1	1
Rubella (German measles)	-	1	5

TABLE V I TUBERCULOSIS 1964 - 66

SWANSCOMBE U.D.

(a) Respiratory

NOTIFICATIONS BY AGE AND SEX.

1964	4	Males	aged 2, 37, 50 and 61 years.	1958	3	1961	1
1965	1	Male	aged 45 years.	1959	5	1962	3
1966	2	Male	aged 21 and female aged 29 years.	1960	5	1963	4

NUMBER ON THE REGISTER ON DECEMBER 31st.

	Males	Females	Persons		Males	Females	Persons
1960	42	26	68	1964	42	21	63
1961	38	24	62	1965	39	17	56
1962	38	25	63	1966	35	13	48
1963	40	23	63				

CHANGES IN REGISTER 1964-66.

Additions:	1964	1965	1966	Removals:	1964	1965	1966
New notifications	4	1	2	Recovered	2	8	6
Moved into district	1	1	-	Left district	2	-	2
	5	2	2	Died	1	1	2
					5	9	10

DEATHS:

The following cases were removed from the register by death:-

1964 Male 54 yrs. Underlying cause I(a) Bronchopneumonia (b) Active fibro-caseous tuberculosis of both lungs.

1965 Male 58 yrs. Underlying cause I(a) Cor. Pulmonale (b) Acute on chronic bronchitis.

1966 Male 72 yrs. Underlying cause I(a) Bronchogenic carcinoma, right lung.

Female 56 yrs. Underlying cause I(a) Carcinomatosis due to (b) Carcinoma of the breast. Contributory cause, II old pulmonary tuberculosis.
(Wrongly assigned by Registrar General to Dartford R.D.)

The following deaths from tuberculosis occurred in persons not on the register:-

1966 Male 59 yrs. Underlying cause I(a) Bronchopneumonia (b) Chronic pulmonary tuberculosis.

Female 44 yrs. Underlying cause I(a) Respiratory failure due to (b) Cor. Pulmonale due to (c) Pulmonary fibrosis and old pulmonary tuberculosis.

This person had been on the tuberculosis register for 14 years and was removed from the register as recovered in 1965.

(b) Non-respiratory

NOTIFICATIONS IN RECENT YEARS.

1961: 1. 1962: -. 1963: -. 1964: -. 1965: -. 1966: 1.

New case 1966: 1 female aged 49 years, tuberculosis of neck gland.

NUMBER ON THE REGISTER DECEMBER 31st.

	Males	Females	Persons		Males	Females	Persons
1960	1	2	3	1964	2	2	4
1961	2	2	4	1965	2	2	4
1962	2	2	4	1966	2	3	5
1963	2	2	4				

CHANGES IN REGISTER 1964-66.

Additions:	1964	1965	1966	Removals:	1964	1965	1966
New notification	Nil	Nil	1		Nil	Nil	Nil

TABLE VII VACCINATIONS

Swanscombe U.D.

Virus Diseases

(a) POLIOMYELITIS

For the years 1957 to 1960 the figures provided by County Hall for vaccination against poliomyelitis for each year gave the number of persons born in each of stated years who had received vaccination in each year under review. When we had figures in this detail we could assemble them in a way which demonstrated the size and pattern of the immunity barrier ready to oppose the spread of poliomyelitis. For 1961 the figures we received related to persons in age groups each of several years of birth. For 1962 similar groupings were also used but the groupings of years of birth were slightly different. For 1963 the groupings were the same as 1962 and we were able to manage the figures concisely enough for example to give the following in our 1963 report:-

Percentage of young population vaccinated 1959-1963

Born	Estimated Population	Number had second dose	% of population	Number had third dose*	% of population
1957-63	919	680	74%	773	84%
1943-56	1944	416	21%	1595	82%
1943-63	2863	1096	38%	2368	83%

*For footnote see 1963 report, it explains why more 3rd doses than 2nd doses.

The raw figures for this current report were provided to us in yet a different form. For 1964 they were in age groups which differed from those of 1963 and the figures for 1965 and 1966 not only differed in their age groups from those of 1964 but in addition were limited to age groups under sixteen years of age.

The above difficulties explain some of the short comings in the presentation of the figures that follow:-

Completed courses of primary vaccination (3 doses or equivalent) Swanscombe U.D.

1962 - 1965

Vaccinated Previous years	Vaccinated 1961	Born in year	Vaccinated 1962	Vaccinated 1963	Vaccinated 1964	Vaccinated 1965	Vaccinated 1962-65	Est. pop. 1965	% immune Dec.31 1965 Swanscombe U.D.	% immune Dec.31 1965 England & Wales.
		1965				35	35	146	24%	?
		1964			40	124	164	175	94%	65%
		1963		33	108	10	151	155	97%	71%
		1962	22	100	12	13	147	150	98%	71%
		1961	97	21	10		≤128	137	≤ 94%	?
2331	565	Previous eligible years	222	21	84	124	≥451			
	2	"Others"	174	6	-	?	≤180			
2331	567	Total	515	181	254	≤306	≤1256			

TABLE VII VACCINATIONS (continued)

Swanscombe U.D.

(a) POLIOMYELITIS (continued)

Completed courses of primary vaccinations (3 doses or equivalent) 1962-66

Born in year	Vaccinated			Estimated Population	Estimated % Immune 31st Dec. 1966	
	1962-65	1966	1962-66		Swanscombe U.D.	Eng.& Wales
1966		35	35	162	22%	
1965	35	114	149	146	102%	
1964	164	12	176	175	101%	
1963	151	6	157	155	101%	
1962	147	4	151	150	101%	
Previous years	579	5	584			
"Others"	180	?	180			
Total	1256	176	1432			

Completed courses of 4 doses

1961		1962		1963	
Age group	Completed 4 doses	Age group	Completed 4 doses	Age group	Completed 4 doses
School children aged under 12 years	633	Born 1943 to 1956	84*	Aged between 5 and 12 years	123*
1964		**1965**		**1966**	
Age group	Completed 4 doses	Age group	Completed 4 doses	Age group	Completed 4 doses
Born 1962-64	-	Born 1962-65	-	Born 1963-66	-
1961	1	1958-61	92*	1962	9
1949-60	73*	1949-57	20*	1961-59	105*
1933-48	-			1958-60	-

*When dead vaccine had been previously given by injection 4th doses by injection or by oral route were given around the year of school entry. Most of these latter doses must therefore have been given at ages from 5 to 8. By 1965 the practice followed was to give three oral doses in infancy followed by a fourth oral dose on starting school.

Percentage of children aged 5 - 11 years who have had 4 doses

(a) Year	(b) Birth years	(c) Est. Pop.	(d) No. receiving 4th dose	Primary school leavers (e) Born	(f) Pop.	(g) School leavers immune 633/927 = 68%	(h) Col.(d) cumulative	(i) Col.(g) cumulative	(j) No. with 4th dose at end of year (h)-(i)	(k) % with 4th dose at end of of year j/c x 100
1961	1950-56	927	633	1950	144	98	633	98	535	58%
1962	1951-57	903	84	1951	131	89	717	187	530	59%
1963	1952-58	896	123	1952	127	86	840	273	567	63%
1964	1953-59	869	73	1953	139	94	913	367	546	63%
1965	1954-60	862	112	1954	125	85	1025	452	573	66%
1966	1955-61	874	105	1955	123	84	1130	536	594	68%

The above table contains assumptions and estimates the rough nature of which only justify figures to the nearest hundred. The figures are not so rounded off in order that the origin of certain figures can thereby be discerned.

TABLE VII VACCINATIONS (Continued)

Swanscombe U.D.

(b) SMALLPOX

NUMBERS VACCINATED and REVACCINATED by age at date of vaccination

Year	Under 1 year	1 year	2 - 4	5 - 14	15 or over	Total
			Vaccinated			
1966	?	100	?	?	?	?
1965	?	103	?	?	?	?
1964	?	92	?	?	?	?
1963	?	34	?	?	?	?
1962	118	29	49	193	254	643
1961	81	9	2	-	10	102
1960	?	?	?	?	?	?
1959	92	_ 4 _/		-	8	104
			Re-vaccinated			
1966	?	?	?	- } Age	?	?
1965	?	?	?	- } 5-7	?	?
1964	?	?	?	- } years	?	?
1963	?	?	?	- }	?	?
1962	-	-	26	256	506	788
1961	-	-	-	-	1	1
1960	?	?	?	?	?	?
1959	-	-	-	2	6	8

INFANT VACCINATION RATE. Up to the end of 1961 most infants who were vaccinated were vaccinated in the first year of life but in 1962 more infants than in former years were vaccinated at a later age. In 1963 the second year of life was advocated as an age for vaccination. The percentage of the number of births in a year of those vaccinated while under one year of age in that year is used here as a vaccination rate up to 1962.

	No. of live births	No. vaccinated under 1 yr.	% of births of those vaccinated
1966	164	?	?
1965	148	?	?
1964	178	?	?
1963	156	?	?
1962	154	118	78%
1961	138	81	59%
1960	136	?	?
1959	105	92	88%

SECOND YEAR VACCINATION RATE. With practice changing to vaccination in the second year of life the County no longer record vaccinations at ages under 1 year, consequently the expedient rate is now the vaccinations done as a percentage of infants surviving to the age of one year.

	Infants aged 1 year approx.	Vaccinations done at age 12 - 23 months	% of those eligible vaccinated
1966	162	100	62%
1965	146	103	71%
1964	175	92	53%
1963	155	34	22%
1962	150	29	19%
1961	137	9	7%

SCHOOL CHILD IMMUNITY. When records of vaccination and revaccination of all young age groups were available it was feasible to make an estimate of school child immunity. Records are now incomplete and this is no longer feasible. However vaccination and revaccination of children of school age is now minimal and the immunity is mainly that from the vaccinations and revaccinations done in 1962 when smallpox was in the country. Our 1963 report estimated 420 or 32% of those born 1949-58 to have this legacy in December 1963. 151 and 144 = 295 left this age group by December 1965 i.e. 32% 295 = 94 left who were immune, therefore 420-94 = 326/1259 = 26% of school children had some immunity in December 1965. A further 131 left this age group in 1966 i.e. 32% 131 = 42 left who were immune, therefore 326-42 = 284 with immunity remained. The 5-14 population December 1966 was 1265 thus roughly 284/1265 = 22% of school children had some immunity by December 1966.

TABLE VII VACCINATIONS (continued)

Swanscombe U.D.

Bacterial Diseases

(c) DIPHTHERIA

NUMBER VACCINATED

Year	Age at 31st December (in years)	Primary inoculations done in the year	Reinforcing inoculations done in the year
1966	0 - 4	170	152
	5 - 7	2	98
	8 -16	-	2
1965	0 - 4	169	137
	5 - 7	6	89
	8 -16	-	2
1964	0 - 4	183	158
	5 - 9	1	78
	10 -14	1	-
1963	0 - 4	159	104
	5 - 9	-	46
	10 -14	2	1
1962	0 - 4	163	84
	5 - 9	1	54
	10 -14	-	2
1961	0 - 4	158	91
	5 - 9	31	96
	10 -14	21	19

PRIMARY VACCINATIONS

At age 0 - 4 years before December 31st 1966 in children aged 0 - 9 years

Year Born	Age Dec.31 1966	Vaccinated in year ending December 31st.											Est. Pop.	% vac- at age 0-4 yrs Jan.57- Dec.'66
		1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1957 -66		
1966	0										74	74	162	46%
1965	1									80	90	170	146	117% *
1964	2								101	80	3	184	175	105%
1963	3			Not	born			80	74	5	2	161	155	104%
1962	4						73	71	5	3	1	153	150	102%
1961	5					65	74	4	2	1		146	137	106%
1960	6				47	71	10	4	1			133	132	101%
1959	7			23	75	5	6	-				109	100	109%
1958	8		18	81	13	6	-		Aged	5+		118	124	95%
1957	9	5	81	9	12	11						118	120	98%
1957-66	0-9	5	99	113	147	158	163	159	183	169	170	1366	1401	
% 0-9 pop. vaccinated at age	0-4		7%	8%	10%	11%	12%	11%	13%	12%	12%	97%		

*The percentages of over 100 show our scope for error and are discussed in the commentary.

TABLE VII VACCINATIONS (continued)

Swanscombe U.D.

Bacterial Diseases

(c) DIPHTHERIA (continued)

REINFORCING VACCINATIONS at ages 0 - 4 years

Year born	Age Dec.31st 1966	Revaccinated in year ending Dec. 31st 1961	1962	1963	1964	1965	1966	1961-1966	Est. Pop.	% revaccinated Jan.1961 to Dec. 1966 at age 0-4
1965	1						6	6	146	4%
1964	2		Not	born	-	4	103	107	175	61%
1963	3			-	7	95	24	126	155	81%
1962	4		-	2	89	23	19	133	150	89%
1961	5	-	-	68	49	15		132	137	96%
1960	6	2	49	29	13			93	132	71%
1959	7	19	27	5				51	100	51%
1958	8	48	8		Aged	5 &	over	56	124	45%
1957	9	22						22	120	18%
Total 1959-65	0-9	91	84	104	158	137	152	726	1239	
% 0-9 population vaccinated at age 0-4		7%	7%	8%	13%	11%	12%	59%		

Some of these revaccinations at school entry may be in children already enumerated at age 18-21 months. Average of age group of several years.

(d) WHOOPING COUGH

NUMBER VACCINATED

Year	Age at 31st December in years	Primary inoculations done in the year	Reinforcing inoculations done in the year
1966	0 - 4	167	125
	5 - 7	1	54
	8 - 16	-	1
1965	0 - 4	168	114
	5 - 7	-	54
	8 - 16	-	1
1964	0 - 4	179	?
	5 - 9	-	?
	10 - 14	-	?
1963	0 - 4	152	?
	5 - 9	-	?
	10 - 14	-	?
1962	0 - 4	161	?
	5 - 9	-	?
	10 - 14	-	?
1961	0 - 4	154	?
	5 - 9	21	?
	10 - 14	14	?

TABLE VII VACCINATIONS (continued)

Swanscombe U.D.

Bacterial Diseases

(d) WHOOPING COUGH (continued)

PRIMARY VACCINATIONS

Year Born	Age Dec.31 1966	Vaccinated in year ending December 31st										Est. Pop.	% vaccinated at age 0-4 years
		1958	1959	1960	1961	1962	1963	1964	1965	1966	1958-66		
1966	0									74	74	162	46%
1965	1								80	87	167	146	114%
1964	2		Not	born				101	80	3	184	175	105%
1963	3						80	72	5	2	159	155	103%
1962	4					73	68	5	2	1	149	150	99%
1961	5				65	73	4	1	1		144	137	105%
1960	6			47	70	10	-	-			127	132	96%
1959	7		50	71	3	5	-		Aged	5+	129	100	129%
1958	8	44	77	10	5	-					136	124	110%
1958-66	0-8	44	127	128	143	161	152	179	168	167	1269	1281	
% 0-8 age group vaccinated		3%	10%	10%	11%	13%	12%	14%	13%	13%	99%	100%	

REINFORCING VACCINATIONS. As since 1960 combined vaccine has been used for whooping cough, diphtheria and tetanus and reinforcing vaccinations at 18-21 months are done with the combined vaccine the number of reinforcing vaccinations at this age for whooping cough is similar to that for diphtheria.

(e) TETANUS

1965 was the first year for which we had figures for tetanus vaccination.

	Age 31st December	Primary vaccinations	Reinforcing vaccinations
1966	0 - 4	170	152
	5 - 7	2	98
	8 - 16	-	2
1965	0 - 4	169	137
	5 - 7	6	89
	8 - 16	-	2

In view of the introduction of the combined vaccine in 1960 the numbers of primary vaccinations against tetanus in years 1960-64 can be assumed to be almost identical with those of diphtheria vaccination.

TABLE VII VACCINATIONS (continued)

COMPARISON WITH OTHER AREAS

	Swanscombe U.D.	Dartford M.B.	Dartford R.D.	Northfleet U.D.	Kent C.C.	England & Wales
POLIOMYELITIS						
Primary vaccination	94%	91%	87%	80%	81% "eligible children"	65%
Reinforcing vaccinations Born 1954-60 and had 4th dose by December 1965	66%	61%	74%	59%	71% "eligible children"	?
SMALLPOX						
Primary vaccination Aged 13-23 months vaccinated in 1965	71%	56%	71%	65%	61% "eligible children"	33%
Revaccination School children revaccinated 1965 as % of school entrants	0%	0%	0%	0%	?	3%
DIPHTHERIA						
Primary vaccination Born 1964 vaccinated in 1964 or 1965	105%**	94%	87%	93%	66% "eligible children"	?
Reinforcing vaccination Born 1961 and reinforcing vaccination by 1965	96%	56%	75%*	56%	?	?
"% total number of 0-4 age group who have completed primary vacc. within last 5 years" by December 1965	Pop.763 Vac.718 % = 94%	Pop.4060 Vac.3293 % = 81%	Pop.5831 Vac.4472 % = 80%	Pop.2367 Vac.1824 % = 77%	?	Pop. 4113000 Vac. ? % = 56%

With the prevailing use of triple vaccine comparisons for whooping cough and tetanus vaccination can be assumed to be similar to the above.

*The population estimate does not include an estimate for the balance of migration and thus is an underestimate which makes above percentage an overestimate.

**Illustrates our scope for error. Perhaps at Greenhithe some Rural District vaccinations might have been assigned to Swanscombe U.D. (This has been subsequently confirmed).

ENVIRONMENTAL MATTERS

I - HOUSING

NEW DWELLINGS.

The following dwellings have been completed during 1964 to 1966:-

	1964	1965	1966
By Council enterprise	26	34	30
By private enterprise	18	66	29

The dwellings completed by the Council were as follows:-

	1964	1965	1966
One bedroom	2	6	12
Two bedroom	18	28	6
Three bedroom	6	-	8
Four bedroom	-	-	4

APPLICANTS FOR COUNCIL HOUSES.

The number of applicants on the Council's waiting list on December 31st 1963 was 293, the number of applications remaining on the register on December 31st 1966 was 314.

HOUSING PRIORITY ON MEDICAL GROUNDS.

Recommendations were as follows:-

	Tuberculosis. Total applications received and number of points given.				Other than tuberculosis. Total applications received and number of points given.			
	Total	0	1-5	6-10	Total	0	1-5	6-10
1964	-	-	-	-	15	1	14	-
1965	1	-	1	-	9	3	6	-
1966	-	-	-	-	12	2	10	-

Number rehoused after being awarded some degree of medical priority:-

	Tuberculosis.	Other than tuberculosis.
1964	-	10
1965	-	2
1966	-	5

IMPROVEMENT GRANTS.

	Standard.	Total of Grants made.	Discretionary.	Total of Grants made.
1964	10	£1,300	7	£1,982. 8. 3.
1965	16	£2,972.18. 0.	8	£2,294. 4.11.
1966	30	£4,907. 3. 0.	7	£2,337.15. 0.

RENT ACT CERTIFICATES.

	Number issued		
	1964	1965	1966
	-	-	-

HOUSES DEMOLISHED.

	1964	1965	1966
Clearance Areas	-	3	4
Demolition Orders	-	-	-

ADDRESSES OF HOUSES DEMOLISHED.

Swanscombe	Greenhithe
2, 8, 10 Craylands Square.	49, 51, 53 and 55 High Street.

UNFIT HOUSES MADE FIT:

		By owner.
1964	After informal action	31
	After issue of Statutory Notices by L.A.	8
1965	After informal action	61
	After issue of Statutory Notices by L.A.	10
1966	After informal action	53
	After issue of Statutory Notices by L.A.	23

REPAIRS: The following are the details of repairs initiated by the Council's Public Health Inspector:

	1964	1965	1966
Ashbins provided	1	2	2
Ceilings repaired	2	4	4
Cesspools repaired or abolished	-	-	1
Chimney stacks repaired or rebuilt	2	-	1
Doors repaired or renewed	6	5	9
Drainage systems repaired	6	2	4
Eaves gutters repaired or renewed	2	5	5
Fascia boards repaired or renewed	1	2	-
Floors repaired or relaid	7	13	4
Rainwater downspouts repaired or renewed	2	3	3
Roofs repaired	10	13	22
Stoves repaired or renewed	1	-	1
Walls repaired	35	53	39
Water closets repaired	1	2	3
Windows repaired or renewed	13	12	9
Yard surfaces repaired or renewed	2	3	4
Staircases repaired	1	2	-
Sinks and waste pipes repaired or renewed	2	3	1

Visits made by the Council's Public Health Inspectors:-

1964	1965	1966
752	837	1,126

CARAVANS LICENSED

1964	Nil	
1965	5	Western Cross Farm, Alkerden Lane. Farm House, Galley Hill. Southfleet Road.
1966	4	Western Cross Farm, Alkerden Lane. Southfleet Road.

II WATER

WATER SUPPLY FOR DOMESTIC USE. The Metropolitan Water Board supply piped water to all the permanent dwellings in the Swanscombe Urban District.

The M.W.B. have no wells sited here but the chalk below forms part of the gathering ground for their wells the water from which is pumped into a grid supplying this and neighbouring districts. Their wells in Dartford Borough and Rural District are the main contributors to our supply.

QUANTITY. Supplies are at present abundant.

ACCESSIBILITY. All permanent dwellings have water piped into them. The water supply to H.M.S. Worcester is from M.W.B. by means of a flexible pipe above the river bed, from which water enters the main store tank from whence it is pumped to three tanks on the forecastle head, thence to distribution points.

WATER FOR INDUSTRIAL USE. Water is abstracted in the area for manufacturing purposes and the following are the main industrial users:-

(1) Empire Paper Mills - Two wells supply water for this factory. One situated in Bean Road, Greenhithe and the other off Southfleet Road, Swanscombe. For domestic purposes supplies from these wells are chlorinated. The Mills have also three test bores used to determine the chemical variation of the water.

(2) New Northfleet Paper Mills - Water used for manufacturing purposes at these Works is obtained from two pumping installations situated in the Northfields quarry. A further well occasionally used is situated near the entrance to the Works. Water for domestic purposes is provided by the M.W.B.

(3) A.P.C.M. Swanscombe Works - The domestic supply for these Works is obtained from the M.W.B. Water for industrial purposes is pumped from one of their local quarries.

QUALITY.

(a) Bacteriological analyses

The details of the thousands of samples taken by M.W.B. for analysis from the raw water in their wells are given in the accompanying table. In the remaining analyses referred to below the number of E. coli type I per 100 ml. is used to summarize the information provided by sampling by Council's Public Health Inspectors.

	Number of samples.	E. coli type I.
M.W.B. samples from consumers premises		
1964	3	0
1965	4	0
1966	10	0
H.M.S. Worcester		
1964	35	0
1965	75	0
	1	1
	1	2
	1	1
1966	80	0
Empire Paper Mills		
1964	2	0
1965	6	0
1966	37	0
	1	1

(b) Chemical analyses

No samples were taken for chemical analysis during the period 1964-66.

BACTERIOLOGICAL RESULTS - METROPOLITAN WATER BOARD

Raw water, before Treatment

Yearly averages

Well	No. of samples	Plate count per ml.		Coliform count		Escherichia coli count	
		20-24 hours at 37°C.	3 days at 22°C.	% samples negative in 100 ml.	Count per 100 ml.	% samples negative in 100 ml.	Count per 100 ml.
1964							
Darenth	251	0.2	6	98.80	-	98.80	-
Dartford	249	0.7	20	100.0	-	100.0	-
Eynsford No. 1	202	0.5	23	68.81	1.7	99.50	-
Eynsford No. 2	209	0.1	2	99.04	-	100.0	-
Green St. Green No. 1	152	0.1	4	95.39	0.1	98.03	-
Green St. Green No. 2	99	0.5	13	95.95	0.1	96.97	0.1
Horton Kirby No. 1	172	0.1	14	95.35	0.1	98.26	-
Horton Kirby No. 2	213	1.4	6	99.06	-	99.06	-
Lullingstone No. 1	143	2.3	13	100.0	-	100.0	-
Lullingstone No. 2	116	0.5	22	100.0	-	100.0	-
Southfleet	247	0.1	4	100.0	-	100.0	-
Wilmington No. 1	61	0.1	114	100.0	-	100.0	-
Wilmington No. 2	127	0.2	141	97.64	0.1	99.21	-
1965							
Darenth	251	0.1	4	100.0	-	100.0	-
Dartford	205	0.0	2	99.02	-	99.51	-
Eynsford No. 1	191	0.2	10	53.40	3.7	99.48	-
Eynsford No. 2	123	0.0	1	96.75	0.1	99.19	-
Green St. Green No. 1	228	0.7	6	90.79	1.1	93.86	0.4
Green St. Green No. 2	18	0.0	0	83.33	0.2	88.89	0.1
Horton Kirby No. 1	189	0.0	11	93.12	0.2	96.83	-
Horton Kirby No. 2	237	0.2	3	96.20	0.4	97.89	0.1
Lullingstone No. 1	130	0.0	1	100.0	-	100.0	-
Lullingstone No. 2	120	0.2	3	99.17	-	99.17	-
Southfleet	245	0.0	2	99.18	-	100.0	-
Wilmington No. 1	51	0.1	4	96.08	-	96.08	-
Wilmington No. 2	168	0.7	14	100.0	-	100.0	-
1966							
Darenth	248	0.3	67	97.18	0.1	98.79	-
Dartford	248	0.0	2	100.0	-	100.0	-
Eynsford No. 1	204	0.2	14	88.73	0.7	100.0	-
Eynsford No. 2	87	0.0	7	98.85	0.1	100.0	-
Green St. Green No. 1	201	0.0	1	92.54	0.2	98.01	-
Green St. Green No. 2	38	0.1	26	97.37	-	97.37	-
Horton Kirby No. 1	233	0.3	64	94.85	0.2	96.14	0.1
Horton Kirby No. 2	246	0.1	2	97.97	0.2	99.59	0.1
Lullingstone No. 1	136	0.0	1	100.0	-	100.0	-
Lullingstone No. 2	122	0.0	0	100.0	-	100.0	-
Southfleet	237	0.8	3	97.47	0.1	100.0	-
Wilmington	248	1.4	29	96.77	0.1	98.79	-

From each source of supply a similar number of samples of treated water were taken. Over 99% were negative for coliforms and 100% were negative for E. coli. type I.

II WATER (continued)

1964-1966 CHEMICAL RESULTS - METROPOLITAN WATER BOARD (Milligrammes per litre)

Well	No. of samples	Ammonia Nitrogen	Albuminoid Nitrogen	Nitrate Nitrogen	Oxygen absorbed in 4 hrs at 27°C.	Hardness Total	Hardness (non-carb)	Chlorides as Chlorine	Natural Fluoride as Fluorine	pH value	Conductivity reciprocal megohms
1964											
Darenth	4	0.003	0.019	5.1	0.08	272	40	18	0.2	7.3	490
Dartford	4	0.005	0.022	4.9	0.08	278	48	19	0.15	7.3	510
Eynsford	8	0.001	0.018	4.2	0.08	260	28	16	0.2	7.3	470
Green St Green	8	0.006	0.022	6.3	0.08	282	30	17	0.1	7.2	500
Horton Kirby	8	0.003	0.022	4.8	0.04	264	40	19	0.15	7.3	480
Southfleet	4	0.005	0.025	6.6	0.06	300	36	18	0.15	7.2	530
Wilmington	6	0.010	0.031	8.3	0.12	288	50	24	0.15	7.2	550
1965											
Darenth	4	0.005	0.024	5.0	0.16	266	34	21	0.2	7.2	480
Dartford	4	0.008	0.035	4.0	0.14	274	52	22	0.15	7.2	500
Eynsford	8	0.003	0.023	3.6	0.12	258	24	17	0.2	7.2	460
Green St Green	7	0.006	0.022	5.3	0.12	276	24	19	0.1	7.1	500
Horton Kirby	8	0.008	0.026	4.5	0.12	272	44	21	0.15	7.2	480
Southfleet	4	0.005	0.025	6.1	0.08	300	34	19	0.15	7.2	530
Wilmington	4	0.020	0.025	6.9	0.14	290	56	25	0.15	7.2	540
1966											
Darenth	4	0.012	0.041	4.6	0.11	273	42	18		7.1	510
Dartford	4	0.005	0.036	3.7	0.15	281	59	20		7.1	520
Eynsford	8	0.010	0.018	3.9	0.13	268	40	17		7.2	470
Green St Green	5	0.010	0.023	6.0	0.07	282	31	19		7.2	510
Horton Kirby	8	0.004	0.031	4.3	0.11	270	46	17		7.1	470
Southfleet	5	0.007	0.040	6.4	0.09	309	44	21		7.1	560
Wilmington	4	0.008	0.049	7.5	0.35	303	67	25		7.1	570

THE COUNCIL'S SWIMMING BATH.

Swimming bath water is liable to be contaminated with organisms coming from dust from footpaths and from the human nose, mouth, skin and bowel. The organisms bathers leave behind are removed by filtration and break point chlorination plant under the care of the Council's Engineer.

Bacteriological analysis of swimming bath water is done to ascertain the efficiency of filtration and chlorination on the pollution introduced by bathers and other means. Counts of E. coli type I in 100 ml measure pollution by bowel organisms. Plate counts measure pollution by skin, nose and other organisms. The aim is that no sample from a bath will contain E. coli type I in 100 ml. water and in 75% of samples the 24 hour plate count at 37°C from 1 ml. water will not exceed 10 colonies and that in the remainder will not exceed 100 colonies. When the quality of the bath water falls below this standard adjustments of filtration and chlorination are made to remedy matters.

The following table summarises the results of bacteriological analyses by the public health laboratory service of samples taken by the Council's public health inspectors.

	Samples	E. coli type I	Plate count						
			0	1-10	11-50	51-100	101-500	501 +	Uncount-able
INLET (Shallow end)									
1964	9	1	2	6	1	-	-	-	-
1965	12	-	5	7	-	-	-	-	-
1966	7	-	5	2	-	-	-	-	-
OUTLET (Deep end)									
1964	9	-	3	3	3	-	-	-	-
1965	12	-	5	7	-	-	-	-	-
1966	7	-	5	1	1	-	-	-	-

H.M.S. WORCESTER SWIMMING POOL.

Samples taken by the Council's Public Health Inspectors gave the following results:-

	Samples	E. coli type I	Plate count						
			0	1-10	11-50	51-100	101-500	501 +	Uncount-able
SHALLOW END									
1964	7	3	2	2	2	-	-	-	1
1965	9	0	7	1	-	-	-	-	1
1966	6	0	3	2	-	-	-	1	-
DEEP END									
1964	7	3	2	2	2	-	-	-	1
1965	9	0	6	2	-	-	-	-	1
1966	6	0	3	2	-	-	-	1	-

III DRAINAGE

1964 - 1966 SWANSCOMBE U.D.

With few exceptions in 1966 all the dwellings of this district were on main drainage. 2525 dwellings drained to the Swanscombe sewage works 234 drained to the Stone sewage works of Dartford Rural District Council and 56 drain to Northfleet sewage works. Improvements costing £96,500 were completed to the Swanscombe sewage works in 1961.

All the 208 dwellings built in the period 1964-66 were connected to the sewer.

At the end of 1966 the position was:-

Dwellings with water closets discharging into sewer	about 2815
" " " " " " septic tanks	0
" " " " " " cesspools	34
" using pail closets (caravans)	3
" " privies	0
Factories on main drainage	26
" " own sewage disposal unit	1
" " septic tanks	0
" " cesspools	6
" " pail closets	0

The following was initiated by the Council's Public Health Inspectors:-

	1964	1965	1966
Pail closets abolished	0	0	0
Cesspools repaired or abolished	2	1	8
Visits regarding cesspools	5	7	9
Drains repaired or reconstructed	4	6	7
Drains tested	46	104	112
Drainage inspections	46	80	93
Inspection chambers repaired	2	3	2

SEWAGE DISPOSAL WORKS. The following summarises the information provided by analyses of the effluent from the Works:

Sampling by Port of London Authority.	Averages in parts per million 1964	1965	1966
Suspended matter	38.03	47.5	41.3
Albuminoid nitrogen	4.12	4.43	3.74
Oxygen absorbed in 4 hours at 27°C	17.23	22.04	18.01
Oxygen absorbed 5 days at 20°C (B.O.D.)	40.6	43.1	33.3
No. of samples taken	6	13	25

Sampling by Council's Public Health Inspectors and analysis by County Analyst.	1964	1965	1966
Suspended matter	40.0	51.6	40.8
Albuminoid nitrogen	8.6	7.06	4.48
Oxygen absorbed 4 hours at 27°C	24.8	24.23	21.7
Oxygen absorbed 5 days at 20°C (B.O.D.)	30.7	28.7	22.8
No. of samples taken	4	11	14

Standards vary with local circumstances but as a general guide effluents should have less than 31 p.p.m. suspended matter and 21 p.p.m. B.O.D.

APPENDIX IV FOOD HYGIENE

FOOD PREPARATION. Food premises inspected by the Council's Public Health Inspectors were:

	1964	1965	1966
Bakehouses	2	2	2
Butchers	8	8	8
Cafes, restaurants, canteens etc.	9	9	9
Confectioners	10	10	10
Fish fryers and fishmongers	1	1	2
Greengrocers	10	10	10
Grocers	30	30	30
Ice-cream premises	34	35	36
Licensed premises	20	20	20
Licensed premises (non-catering)	-	-	-
The number of inspections were	419	281	209

The figure for ice cream premises is the number of premises registered most of which were also the premises of grocers and confectioners.

REGISTERED PREMISES. Section 16 of the Food & Drugs Act 1955 requires certain premises to be registered.

Those registered were:	1964	1965	1966
Sausage making and cooked meats	-	-	-
Sale and storage of ice cream	-	1	1
Manufacture and sale of ice cream	-	-	-
Those on the register each December were			
Sausage making etc.	1	1	1
Sale and storage of ice cream	34	35	36
Manufacture and sale of ice cream	1	1	1
The following were the remedies effected:			
Surfaces made suitable	20	8	5
Clothing made clean	3	-	3
Sanitary accommodation cleansed	6	4	3
Sanitary accommodation repaired	3	1	2

Certain notices were verbal and not written.

MILK. Regulations require this Council to register (a) dairies not being dairy farms and (b) distributors, i.e. dairymen other than dairy farmers.

The following are the figures for registrations:

	1964	1965	1966
Distributors registered	22	22	22
Dairies registered	-	-	-

Milk sold must be designated and distributors must be licensed by the Food and Drugs Authority to use the designations. Licenses issued were:

	1964	1965	1966
Pasteurised	3	3	5
Sterilised	19	19	16

FOOD REGARDED AS UNFIT FOR CONSUMPTION.

Seizure of suspected food by the Council's Officers: Nil

Surrender of suspected food by traders:

	1964	1965	1966
Meat and fish	179	41	133
Other foods	35 lbs	23 tins 171 packets	

Submission of suspected food by complaining customers

	1964	1965	1966
Moulds	1	-	2

Warning letters were issued regarding the above.

Unfit food found by sampling: Nil.

Meat rejected by meat inspection at slaughterhouse: Nil.

The last slaughterhouse to operate was used only for the slaughter of pigs and sheep and ceased to operate in 1957. Thus the Council's Public Health Inspectors were not called upon to carry out meat inspection. No slaughterman was licensed by this Council in the years 1958-66.

LABORATORY EXAMINATIONS.

Ice cream. Samples obtained by the Council's Public Health Inspector and examined for cleanliness by the Methylene blue test were:

	Provisional Grade	1964	1965	1966
Methylene blue decolourized in:				
Over 4 hrs. at 37°C	I	100	99	103
2½ - 4 hrs. at 37°C	II	16	10	6
0 - 2 hrs. at 37°C	III	-	5	3
Preincubation period (17 hrs. at 20°C)	IV	-	-	3
		116	114	115

Suggested standard. About 50% of samples to fall into Grade I, 80% into Grades I or II, not more than 20% into Grade III, and none into Grade IV.

Milk. All milk sold must be designated milk and must satisfy the prescribed designation tests. Sampling for these tests is done by the Food and Drugs Authority. The results of sampling were:

	Samples			Satisfactory			Unsatisfactory		
	1964	1965	1966	1964	1965	1966	1964	1965	1966
Pasteurised	0	1	2	-	1	1	-	0	1 void
Sterilized	0	1	0	-	1	-	-	0	-
Untreated	0	0	0	-	-	-	-	-	-
Ultra heat treated	0	0	0	-	-	-	-	-	-

LEGAL PROCEEDINGS. None.

APPENDIX FOOD CONTENT

SAMPLING. Samples taken by the Food and Drugs Authority in Swanscombe U.D. were:

	1964	1965	1966
Milks	10	9	8
Drugs	5	4	4
Spirits etc.	2	3	3
Other food	16	15	16
	33	31	31

All the above were genuine except:

	Offending sample
1965	Canned black currants with labelling irregularity
1966	Ginger beer. Bitter lemon. Saccharin not declared

Food submitted by customers complaining to this Council.

1964	Mineral water containing oil and iron.
	Cotton fibres in bread.

LEGAL PROCEEDINGS. None. Manufacturers warned in all above cases.

APPENDIX V.

AIR HYGIENE

SMOKE CONTROL

DOMESTIC. By the end of 1966 no smoke control orders were in operation in Swanscombe.

INDUSTRIAL. Matters attended to by the Council's Public Health Inspectors were as follows:-

Nuisances.

1964	Nuisance at Greenhithe by dust from cement works. Referred to Alkali etc. Works Inspector.
1965	Oil smuts from mineral railway locomotive of paper mill. Locomotive replaced by diesel locomotives.
1966	Dust nuisance from burning refuse in a quarry. Nuisance ceased on representations made to occupier of quarry.

Proposals.

1965	New power houses and boiler chimneys. Two proposals. Satisfactory chimney heights agreed.
1966	One proposal for erection of new chimney. Satisfactory chimney height agreed.

MEASUREMENTS. The monthly collections of deposit analysed by the County Analyst with the daily measurements of smoke and acidity made in these offices were included in the readings for the whole Thameside area distributed by the Thameside Joint Committee for the Abatement of Atmospheric Pollution. Volumetric gauge readings were begun here in December 1965.

DUST FROM CEMENT WORKS

Standard deposit gauge readings. In spite of their limitations these gauges are the means by which the trend of dust nuisance has been followed by public health authorities in this area. The trend lines from 1954 to 1962 - when calculations were suspended for a review of the formula for assessing dust from cement works - were given in the report for the years 1958 to 1963 and it is not expedient to repeat them here. Suffice to say that from 1958 to 1962 in figures for dust from cement works a rising trend was detectable.

As weather is influential in determining the amount of dust collected in deposit gauges the percentage of dust from cement works as related to dust from other sources is an additional and may be a better guide to the trend of emission than the absolute quantity gathered each month.

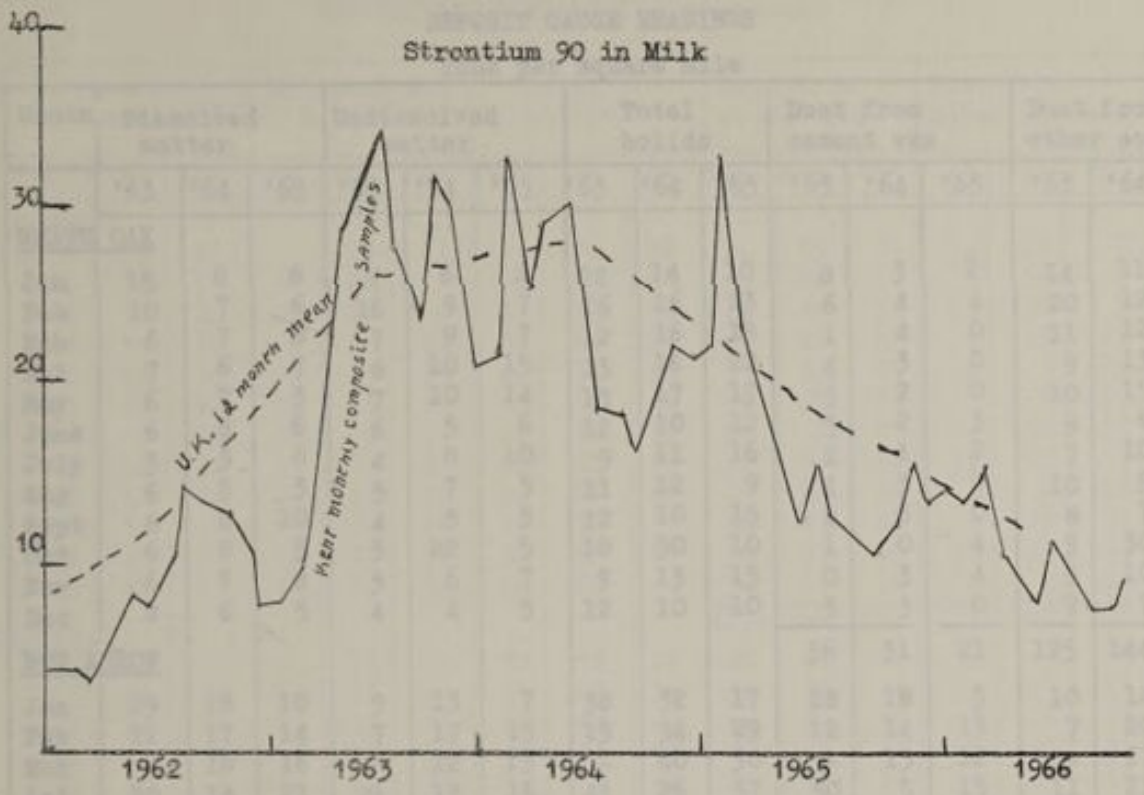
Imagine a tin of 4 pints capacity with a lid. Each month there is added one pint of black dust and an unspecified amount of white dust. The lid is put on the tin and the contents well shaken. For practical reasons the whole mixture cannot be analysed and only a sample can be extracted each month with a spoon the size of which varies with the weather. Because the variation in the size of the monthly sample is governed by the weather the absolute quantity of the dust in the sample only measures the weather of the month. The percentage of white dust in the sample is not affected by the weather but is related to the amount of white dust added during the month to the constant quantity of black dust.

The trend lines for the percentage of dust from cement works for 1959 to 1962 was markedly upward but they were not entirely reliable as dust from other sources is influenced by the fuels used in other industries and these have been subject to change.

In this appendix, instead of trend lines, histograms have been used for the years 1963, 1964 and 1965.

The percentage of dust from cement works to dust from other sources in the combined readings of the most affected gauges - Horns Cross, Northfleet and Swanscombe - is perhaps a concise guide if one remembers the above limitations. A downward trend is detectable.

APPENDIX VI RADIOACTIVITY



KENT

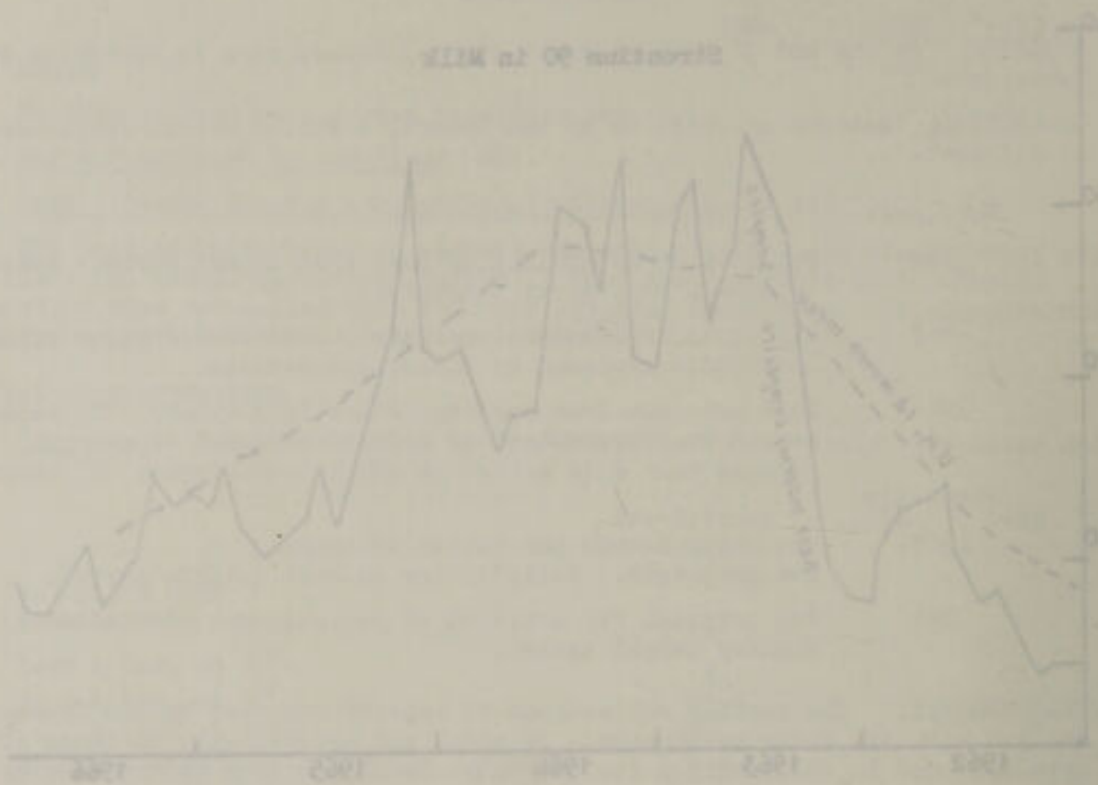
	Number of samples					Strontium 90 pCi/g.Ca*				
	1962	1963	1964	1965	1966	1962	1963	1964	1965	1966
Jan	125	88	99	83	97	4.0	8.5	25.6	21.9	13.0
Feb	105	143	136	112	123	4.4	8.4	27.0	22.3	13.8
March	112	160	94	80	138	4.0	9.6	32.5	32.6	13.5
April	81	64	122	74	85	5.8	13.4	26.3	22.5	14.2
May	107	169	94	80	127	8.6	21.6	28.6	15.5	10.9
June	80	84	118	42	98	8.2	24.5	30.0	12.2	8.8
July	103	100	120	110	116	10.4	31.0	25.5	15.4	7.5
Aug	65	62	96	86	54	14.6	32.8	18.8	12.4	10.8
Sept	106	54	85	81	103	13.6	27.6	17.9	11.2	8.5
Oct	95	146	81	80	44	13.0	24.0	16.9	10.3	7.4
Nov	120	123	93	66	48	12.5	31.4	19.0	11.8	8.4
Dec	64	87	38	36	37	10.4	29.6	21.3	15.1	8.4
Average						9.1	21.9	24.1	16.9	10.4

UNITED KINGDOM

Deposition Sr.90 mCi/km^2	1958	1959	1960	1961	1962	1963	1964	1965	1966
Annual deposit	5	8	2	2	11	19	15	6	3
Cumulative deposit Dec. 31	15	23	24	26	35	53	67	71	72
Intake of Sr.90 pCi/day									
Total diet	6	10	7	7	11	25	29	19	✓
Mean Strontium 90 values (pCi/g.Ca)									
Total diet	6	9	6	6	10	23	26	18	✓
Milk	7	10	6	6	12	26	28	19	12

*pCi/ = piccocurie. pCi/g.Ca = Strontium Unit = picocurie Sr.90 per gramme calcium

✓ Analysis of total diet now unnecessary as results similar to milk.



AIR HYGIENE

DEPOSIT GAUGE READINGS

Tons per square mile

Month	Dissolved matter			Undissolved matter			Total solids			Dust from cement wks			Dust from other sources		
	'63	'64	'65	'63	'64	'65	'63	'64	'65	'63	'64	'65	'63	'64	'65
WHITE OAK															
Jan	15	8	6	7	6	4	22	14	10	8	3	2	14	11	8
Feb	10	7	6	16	9	7	26	16	13	6	4	4	20	12	9
Mch	6	7	8	7	9	7	12	16	15	1	4	0	11	12	15
Apl	7	6	7	6	10	15	13	16	22	4	3	0	9	13	22
May	6	7	3	7	10	14	13	17	17	3	2	0	10	15	17
June	6	5	6	6	5	6	12	10	12	3	2	3	9	8	9
July	5	3	6	4	8	10	9	11	16	2	1	2	7	10	14
Aug	6	5	3	5	7	5	11	12	9	1	3	2	10	9	7
Sept	8	4	10	4	5	5	12	10	15	4	3	0	8	7	15
Oct	6	8	5	3	22	5	10	30	10	1	0	4	9	30	6
Nov	6	7	8	3	6	7	9	13	15	0	3	4	9	10	11
Dec	8	6	5	4	4	5	12	10	10	3	3	0	9	7	10
										36	31	21	125	144	143
BOW ARROW															
Jan	29	18	10	9	13	7	38	32	17	28	18	5	10	14	12
Feb	12	17	14	7	17	15	19	34	29	12	14	13	7	20	16
Mch	-	18	16	-	22	13	-	40	30	-	13	12	-	27	18
Apl	20	13	21	21	13	16	41	26	37	30	5	15	11	21	22
May	11	16	7	9	19	6	20	35	13	10	14	2	10	21	11
June	14	18	13	15	17	19	29	35	32	18	11	11	11	24	21
July	14	7	15	22	14	14	36	21	29	30	4	9	6	17	20
Aug	12	10	15	12	20	13	24	30	28	12	11	10	12	19	18
Sept	19	10	10	37	23	11	56	33	21	33	9	1	23	24	20
Oct	9	17	21	7	19	20	16	36	41	8	16	23	8	20	18
Nov	12	15	26	6	10	19	18	25	46	5	12	25	13	13	21
Dec	17	15	9	13	13	9	30	28	18	18	14	2	12	14	16
										204+	141	128	123	234	213
DARTFORD CENTRAL															
Jan	19	14	9	8	11	10	27	25	19	14	12	3	13	23	16
Feb	15	13	10	17	13	12	32	27	22	15	9	8	17	18	14
Mch	8	15	11	6	13	9	14	28	21	4	9	6	10	19	15
Apl	18	9	14	15	10	12	33	19	26	22	3	8	11	16	16
May	13	12	5	5	12	7	18	24	12	7	7	0	11	17	12
June	12	14	12	6	9	8	17	23	20	11	5	8	6	18	12
July	10	5	11	11	11	8	21	16	19	15	2	4	6	14	15
Aug	10	9	12	10	8	8	20	17	20	7	6	5	13	11	15
Sept	10	8	7	15	14	8	25	22	15	16	10	2	9	12	13
Oct	7	13	17	6	10	8	13	23	25	6	8	15	7	15	10
Nov	8	12	16	6	8	12	14	20	28	3	9	13	11	11	15
Dec	11	12	7	9	9	7	20	22	13	9	8	0	11	14	13
										129	88	72	125	188	166
JOYCE GREEN															
Jan	-	17	9	-	15	5	-	32	14	-	17	5	-	15	9
Feb	-	19	9	-	18	5	-	35	14	-	20	6	-	15	8
Mch	9	17	14	15	17	7	24	34	21	0	12	12	24	22	9
Apl	11	10	17	9	11	17	20	21	34	10	5	2	10	16	32
May	-	14	5	-	17	5	-	32	10	-	8	2	-	24	8
June	12	14	10	13	13	7	25	27	17	9	7	6	14	20	11
July	13	7	10	19	12	9	33	19	20	15	3	6	18	16	14
Aug	15	9	8	12	10	6	27	19	13	8	7	6	19	12	7
Sept	17	10	7	11	13	10	28	23	17	19	10	1	9	13	16
Oct	10	22	20	11	14	37	21	36	57	10	10	14	11	26	43
Nov	16	14	22	20	9	18	36	24	41	9	10	14	25	14	27
Dec	14	6	7	11	7	6	26	13	13	16	5	0	10	8	13
											114	74		193	197

AIR POLLUTION

DEPOSIT GAUGE READINGS

Tons per square mile

Month	Dissolved matter			Undissolved matter			Total solids			Dust from cement wks			Dust from other sources		
	'63	'64	'65	'63	'64	'65	'63	'64	'65	'63	'64	'65	'63	'64	'65
WHITE OAK															
Jan	8	6		7	6	4	22	14	10	8	5	2	14	11	8
Feb	10	7	6	16	9	7	26	16	13	6	4	4	20	12	9
Mch	6	7	8	7	9	7	12	16	15	1	4	0	11	12	15
Apl	7	6	7	6	10	15	13	16	22	4	5	0	9	15	22
May	6	7	3	7	10	14	13	17	17	3	2	0	10	15	17
June	6	5	6	6	5	6	12	10	12	3	2	3	9	8	9
July	5	3	6	4	8	10	9	11	16	2	3	2	7	10	14
Aug	6	5	3	5	7	5	11	12	9	1	3	2	10	9	7
Sept	8	4	10	4	5	5	12	10	15	4	3	0	8	7	15
Oct	6	8	5	3	22	5	10	30	10	1	0	4	9	30	6
Nov	6	7	8	3	6	7	9	13	15	0	3	4	9	10	11
Dec	8	6	5	4	4	5	12	10	10	3	3	0	9	7	10
NEW ARROW										36	31	21	125	144	143
Jan	29	18	10	9	13	7	38	32	17	28	18	5	10	14	12
Feb	12	17	14	7	17	15	19	34	29	12	14	13	7	20	16
Mch	-	18	16	-	22	13	-	40	30	-	13	12	-	27	18
Apl	20	13	21	21	13	16	41	26	37	30	5	15	11	21	22
May	11	16	7	9	19	6	20	35	13	10	14	2	10	21	11
June	14	18	13	15	17	19	29	35	32	18	11	11	11	24	21
July	14	7	13	22	14	14	36	21	27	30	4	9	6	17	20
Aug	12	10	13	12	20	13	24	30	26	12	11	10	12	19	18
Sept	19	10	10	37	25	11	56	35	21	33	9	1	23	24	20
Oct	9	17	23	7	19	20	16	36	43	8	16	8	20	20	18
Nov	12	13	26	6	10	19	18	25	46	5	12	25	13	13	21
Dec	17	13	9	13	13	9	30	28	18	18	14	2	12	14	16
DARTFORD CENTRAL										204+	141	128	123	234	213
Jan	19	14	9	8	11	10	27	25	19	14	12	3	13	25	16
Feb	13	13	10	17	13	12	32	27	22	13	9	8	17	18	14
Mch	8	13	11	6	13	9	14	28	21	4	9	6	10	19	13
Apl	18	9	14	13	10	12	33	19	26	22	3	8	11	16	16
May	13	12	5	5	12	7	18	24	12	7	7	0	11	17	12
June	12	14	12	6	9	8	17	23	20	11	5	8	6	18	12
July	10	5	11	11	11	8	21	16	19	13	2	4	6	14	13
Aug	10	9	12	10	8	8	20	17	20	7	6	5	13	11	13
Sept	10	8	7	13	14	6	23	22	13	16	10	2	9	12	13
Oct	7	13	17	6	10	8	13	23	25	6	8	15	7	15	10
Nov	8	12	16	6	8	12	14	20	28	3	9	13	11	11	15
Dec	11	12	7	9	9	7	20	22	13	9	8	0	11	14	13
JOYCE GREEN										129	88	72	125	188	166
Jan	-	17	9	-	15	5	-	32	14	-	17	5	-	15	9
Feb	-	19	9	-	18	5	-	35	14	-	20	6	-	15	8
Mch	9	17	14	15	17	7	24	34	21	0	12	12	24	22	9
Apl	11	10	17	9	11	17	20	21	34	10	5	2	10	16	32
May	-	14	5	-	17	5	-	32	10	-	8	2	24	-	8
June	12	14	10	13	13	7	25	27	17	9	7	6	14	20	13
July	13	7	10	19	12	9	33	19	20	15	5	6	18	16	14
Aug	15	9	8	12	10	6	27	19	13	8	7	6	19	12	7
Sept	17	10	7	11	13	10	28	23	17	19	10	1	9	13	16
Oct	10	22	20	11	14	17	21	36	37	10	10	14	11	26	43
Nov	16	14	22	20	9	18	36	24	41	9	10	14	25	14	27
Dec	14	6	7	11	7	6	25	13	13	16	5	0	10	8	13
										114	74			195	197

DEPOSIT GAUGE READINGS (continued)

Month	Dissolved matter			Undissolved matter			Total solids			Dust from cement wks			Dust from other sources		
	'63	'64	'65	'63	'64	'65	'63	'64	'65	'63	'64	'65	'63	'64	'65
HORNS CROSS															
Jan	-	35	25		36	11	-	71	36	-	55	29	-	16	7
Feb	34	33	35	30	22	1	64	55	36	60	39	34	4	16	2
Mch	27	32	28	20	18	6	47	50	34	36	40	33	11	10	1
Apl	24	35	38	15	30	84	39	66	122	33	48	51	6	18	71
May	22	23	15	20	15	39	41	38	54	37	34	25	4	4	29
June	23	24	22	22	11	27	45	35	49	38	26	34	7	9	15
July	14	9	18	29	13	19	43	22	37	39	6	27	4	16	10
Aug	17	16	12	15	65	15	32	81	27	21	58	20	11	23	7
Sept	27	11	25	25	13	15	52	23	40	49	14	24	3	9	16
Oct	18	34	11	23	38	26	41	72	37	32	43	16	9	29	21
Nov	19	45	54	13	33	35	32	78	89	20	67	65	12	11	24
Dec	29	44	27	31	24	14	60	68	42	54	66	18	6	2	24
										419+	496	376	77	163	227
SWANSCOMBE															
Jan	37	29	13	25	23	8	62	52	22	46	43	17	16	9	5
Feb	21	26	18	24	22	21	45	47	39	36	30	28	9	17	11
Mch	18	24	23	11	19	25	29	43	48	20	27	31	9	16	17
Apl	19	16	31	17	15	38	36	31	69	27	16	38	9	15	31
May	18	19	14	16	32	17	34	51	32	25	28	17	9	23	15
June	19	27	-	17	16	-	36	43	68	27	23	18	9	20	50
July	14	14	17	23	23	12	37	37	29	22	6	17	15	31	12
Aug	17	12	22	12	18	26	29	30	48	19	18	27	10	12	21
Sept	21	17	20	23	21	10	44	38	30	36	25	21	8	13	11
Oct	19	32	20	15	25	16	34	58	36	28	43	24	6	15	12
Nov	19	28	39	12	19	23	31	47	62	19	39	46	19	8	16
Dec	24	31	26	22	20	12	46	51	38	41	36	26	5	15	12
										346	334	310	124	194	213
NORTHFLEET															
Jan	27	27	20	12	25	16	39	52	36	34	38	25	5	14	11
Feb	18	23	17	27	27	15	45	50	32	36	24	22	9	26	10
Mch	20	19	20	17	24	17	37	43	38	27	19	24	10	24	14
Apl	18	12	28	17	9	25	35	21	53	30	9	32	5	12	21
May	13	17	13	14	12	13	27	29	26	24	13	13	3	16	13
June	15	20	15	15	15	11	30	35	26	24	12	13	6	23	13
July	13	10	14	11	14	10	24	24	24	20	11	9	4	13	15
Aug	20	12	17	16	25	19	36	37	37	24	19	23	12	18	14
Sept	18	12	19	16	14	11	34	26	30	26	14	14	8	12	16
Oct	17	24	19	21	21	11	38	45	30	26	26	18	12	19	12
Nov	16	25	40	8	16	24	24	41	64	13	34	36	11	7	28
Dec	20	21	-	19	19	-	40	40	-	32	28	-	8	12	-
										316	247	229+	93	196	167

TREND

Sum of Horns Cross, Swanscombe and Northfleet readings. i.e. "tons per 3 sq miles"

Month	Dust from cement wks			Dust from elsewhere			Total solids			% Dust from cement works		
	'63	'64	'65	'63	'64	'65	'63	'64	'65	'63	'64	'65
Jan	-	136	71	-	39	23	101	175	94	-	78	76
Feb	132	93	84	22	59	23	154	152	107	85	61	78
Mch	83	86	88	30	30	32	113	116	120	73	74	73
Apl	92	73	121	18	45	123	110	118	244	84	62	50
May	86	75	55	16	43	57	102	118	112	84	64	49
June	89	61	65	22	52	78	111	113	143	80	54	45
July	81	23	53	23	60	37	104	83	90	77	28	59
Aug	64	95	70	33	53	42	97	148	112	66	64	62
Sept	111	53	59	19	24	41	130	87	100	85	61	59
Oct	86	112	55	27	63	48	113	175	103	76	64	53
Nov	52	140	147	35	26	68	87	166	215	60	84	68
Dec	127	130	-	19	29	-	146	159	-	87	82	-
	1003+	1077	868+	264	523	572+						

AIR MISSIONS (continued)

DEPOSIT GAUGE READINGS (continued)

Month	Received metres			Unobserved metres			Total solids			Dust from cement works			Dust from other sources		
	'63	'64	'65	'63	'64	'65	'63	'64	'65	'63	'64	'65	'63	'64	'65
BURNS DYKE															
Jan	-	39	21		34	11	-	71	36	-	39	29	-	16	7
Feb	54	33		30	22	1	64	55	56	60	39	34	4	16	8
Mch	27	32		20	18	6	47	50	54	40	55	33	11	10	12
Apl	23	35		15	30	84	35	66	122	35	48	51	6	18	71
May	22	19		20	15	39	41	38	94	57	34	25	4	6	29
June	23	22		22	11	27	45	35	49	36	26	34	7	9	15
July	24	18		29	13	19	43	22	37	39	6	27	4	16	10
Aug	17	12		15	65	15	32	81	27	21	58	20	11	23	7
Sept	27	11		25	15	15	52	25	40	40	14	24	5	9	16
Oct	18	14		25	38	26	41	72	37	32	43	19	9	29	21
Nov	19	45		13	27	39	32	78	89	20	67	65	12	11	24
Dec	29	44		21	24	14	50	68	42	54	66	18	6	2	24
EVANSDOWNE															
Jan	37	59	13	25	23	8	62	52	22	46	43	17	16	9	5
Feb	21	26	38	24	22	21	45	47	59	36	30	28	9	17	11
Mch	19	24	23	11	19	25	29	43	48	20	27	31	9	16	17
Apl	19	16	31	17	15	28	36	31	59	27	16	18	9	15	41
May	18	19	14	26	32	17	34	51	32	25	28	17	9	23	15
June	19	27	-	17	16	-	36	45	68	27	25	18	9	20	50
July	14	14	17	23	23	13	37	37	29	22	6	17	15	31	12
Aug	17	18	22	12	18	26	29	30	48	19	18	27	10	12	21
Sept	21	17	20	23	21	10	44	38	30	36	25	21	8	13	11
Oct	19	32	20	15	25	16	34	58	36	28	43	24	6	15	12
Nov	19	28	39	12	19	23	31	47	62	19	39	46	19	8	16
Dec	24	31	26	22	20	12	46	51	38	41	36	9	5	15	12
PORTPLANET															
Jan	17	27	20	12	25	16	39	52	36	34	38	23	5	14	12
Feb	16	23	17	27	27	15	43	50	42	36	24	22	7	26	10
Mch	20	19	20	17	24	17	37	43	38	27	19	24	10	24	14
Apl	18	12	28	17	9	25	34	21	53	30	9	32	5	12	21
May	15	17	23	14	19	15	27	29	38	24	19	23	3	16	15
June	15	20	15	15	19	11	30	35	26	24	19	15	6	29	11
July	15	10	14	11	14	10	24	24	24	20	11	9	4	13	15
Aug	20	12	17	16	25	19	36	37	37	24	19	23	12	18	14
Sept	18	12	19	16	14	11	34	26	30	26	14	14	6	12	16
Oct	17	24	19	21	21	13	38	45	32	26	26	18	12	19	14
Nov	26	25	40	8	16	24	24	41	64	15	34	36	11	7	28
Dec	20	21	-	14	19	-	40	40	-	29	28	-	6	12	-

CHECK

Sums of Burns Cross, Evansdowne and Portplanet readings. i.e. "Some part 3 of mines"

Month	Dust from cement wks			Dust from elsewhere			Total solids			% Dust from cement works		
	'63	'64	'65	'63	'64	'65	'63	'64	'65	'63	'64	'65
Jan	-	156	72	-	59	23	101	175	94	-	76	76
Feb	129	84	22	59	59	25	134	152	107	85	61	76
Mch	85	86	20	30	30	32	115	116	120	73	74	75
Apl	82	73	18	45	122	120	110	139	244	84	62	50
May	86	75	16	45	57	102	118	112		84	64	49
June	89	61	22	50	16	111	115	143		80	54	45
July	81	23	23	50	37	104	85	90		77	28	59
Aug	64	95	70	53	42	97	148	112		66	64	62
Sept	111	77	59	19	24	41	150	87	100	85	61	59
Oct	86	112	55	27	65	46	143	175	103	76	64	53
Nov	52	140	147	35	26	68	87	166	215	60	84	68
Dec	127	130	-	19	20	-	146	159	-	87	82	-

AIR HYGIENE (continued)

DEPOSIT GAUGE READINGS

Month	% Dust from cement works		
	1963	1964	1965
WHITE OAK			
Jan	36	23	18
Feb	23	26	30
Mch	8	26	1
Apl	31	16	0
May	23	10	0
June	25	16	23
July	22	7	12
Aug	9	25	19
Sept	33	30	0
Oct	10	0	42
Nov	0	20	28
Dec	25	30	1
	~~274~~ 245	229	174
BOW ARROW			
Jan	74	55	27
Feb	33	42	45
Mch		33	39
Apl	73	19	39
May	50	39	18
June	62	32	35
July	84	20	31
Aug	50	35	35
Sept	58	28	4
Oct	50	45	56
Nov	28	48	54
Dec	60	50	13
	622+	446	396
DARTFORD CENTRAL			
Jan	52	47	15
Feb	47	35	34
Mch	29	34	27
Apl	67	15	31
May	38	29	3
June	64	20	39
July	72	11	18
Aug	35	33	23
Sept	64	43	12
Oct	46	36	59
Nov	22	46	47
Dec	45	38	0
	581	387	308
JOYCE GREEN			
Jan	-	52	35
Feb	-	57	45
Mch	0	38	57
Apl	50	22	5
May	-	26	19
June	36	24	37
July	45	17	29
Aug	30	39	45
Sept	68	43	5
Oct	47	28	25
Nov	25	40	39
Dec	62	36	0
		422	341

AIR HYGIENE (continued)

DEPOSIT GAUGE READINGS

Month	% Dust from cement works		
	1963	1964	1965
WHITE OAK			
Jan	36	25	18
Feb	25	26	30
Mch	8	26	1
Apl	31	16	0
May	25	10	0
June	25	16	25
July	22	7	12
Aug	9	25	19
Sept	35	30	0
Oct	10	0	42
Nov	0	20	28
Dec	25	30	1
NEW ARROW	244	229	174
Jan	74	55	27
Feb	35	42	45
Mch		35	39
Apl	73	19	39
May	50	39	18
June	62	32	35
July	64	20	31
Aug	50	35	35
Sept	58	28	4
Oct	50	45	56
Nov	28	48	34
Dec	60	30	13
	574	410	335
DARTFORD CENTRAL			
Jan	32	47	15
Feb	47	35	34
Mch	29	34	27
Apl	67	15	31
May	38	29	3
June	64	20	39
July	72	11	18
Aug	35	35	23
Sept	64	43	12
Oct	46	36	38
Nov	22	46	47
Dec	45	38	0
	561	387	308
JOYCE GREEN			
Jan	-	52	35
Feb	-	37	45
Mch	0	38	37
Apl	30	22	3
May	-	26	19
June	36	24	37
July	45	17	29
Aug	30	39	45
Sept	58	43	3
Oct	47	28	25
Nov	25	40	39
Dec	62	36	0
		422	341

DEPOSIT GAUGE READINGS (continued)

Month	% Dust from cement works		
	1963	1964	1965
HORNS CROSS			
Jan		77	82
Feb	94	70	94
Mch	77	80	97
Apl	85	73	42
May	90	90	45
June	85	74	69
July	90	28	72
Aug	66	72	75
Sept	94	63	61
Oct	78	60	43
Nov	63	86	73
Dec	90	98	43
	912+	871	796
SWANSCOMBE			
Jan	74	83	79
Feb	80	63	72
Mch	69	63	64
Apl	75	53	54
May	74	55	55
June	75	54	27
July	59	17	59
Aug	66	61	55
Sept	82	65	72
Oct	83	75	67
Nov	61	83	74
Dec	89	72	69
	887	744	747
NORTHFLEET			
Jan	87	73	70
Feb	80	48	70
Mch	73	39	63
Apl	86	44	60
May	89	46	51
June	80	33	50
July	84	47	37
Aug	66	52	62
Sept	76	55	47
Oct	68	58	60
Nov	54	81	56
Dec	80	71	
	923	647	626+

DUST FROM CEMENT WORKS
MONTHLY TOTALS OF DARTFORD CENTRAL AND WHITE OAK GAUGES

Month	1963	1964	1965
Jan	22	15	5
Feb	21	13	12
Mch	5	13	6
Apl	26	6	8
May	10	9	0
June	14	7	11
July	17	3	6
Aug	8	9	7
Sept	20	13	2
Oct	7	8	19
Nov	3	12	17
Dec	12	11	0
	165	119	93

AIR MOVEMENTS (continued)

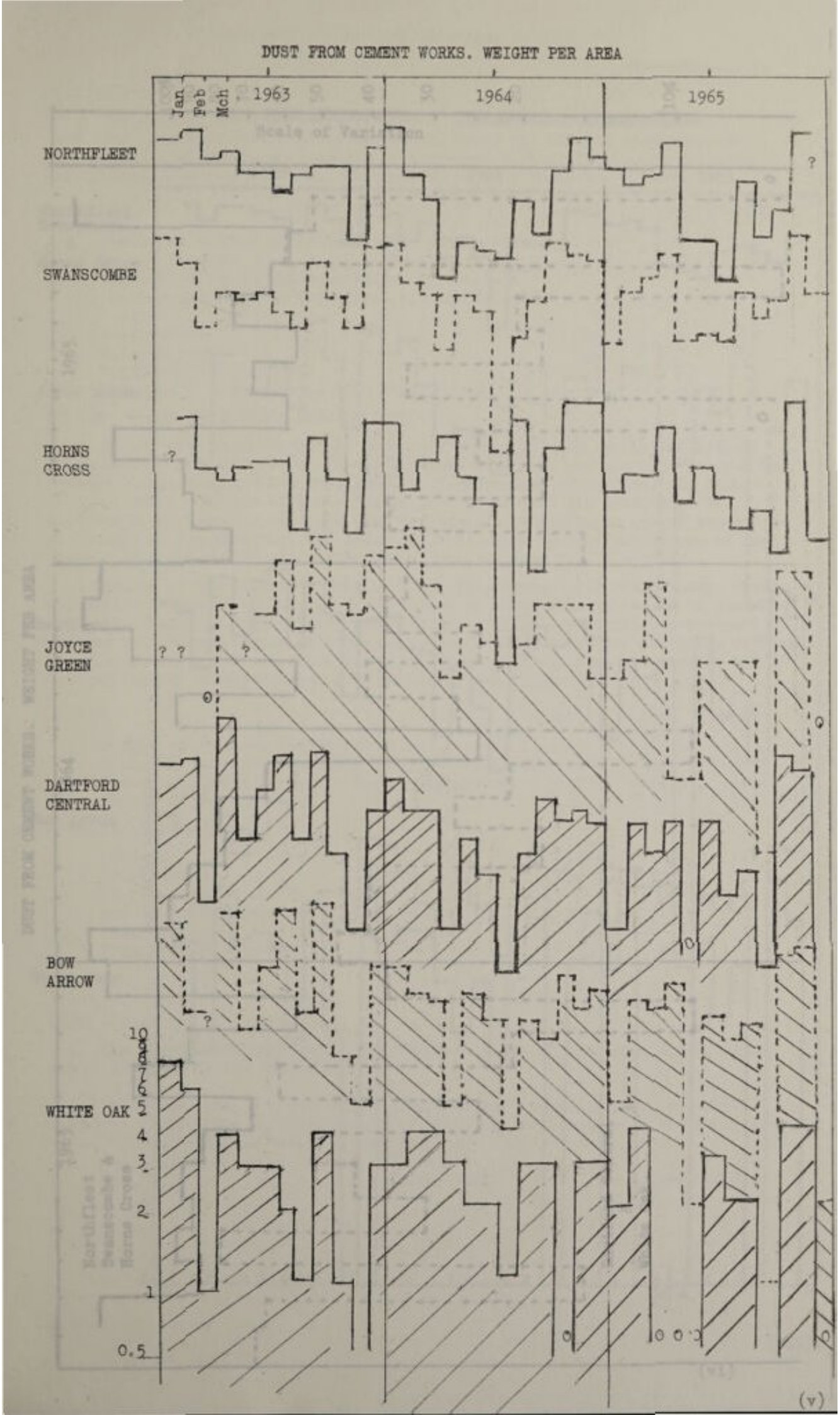
DEPOSIT GAUGE READINGS (continued)

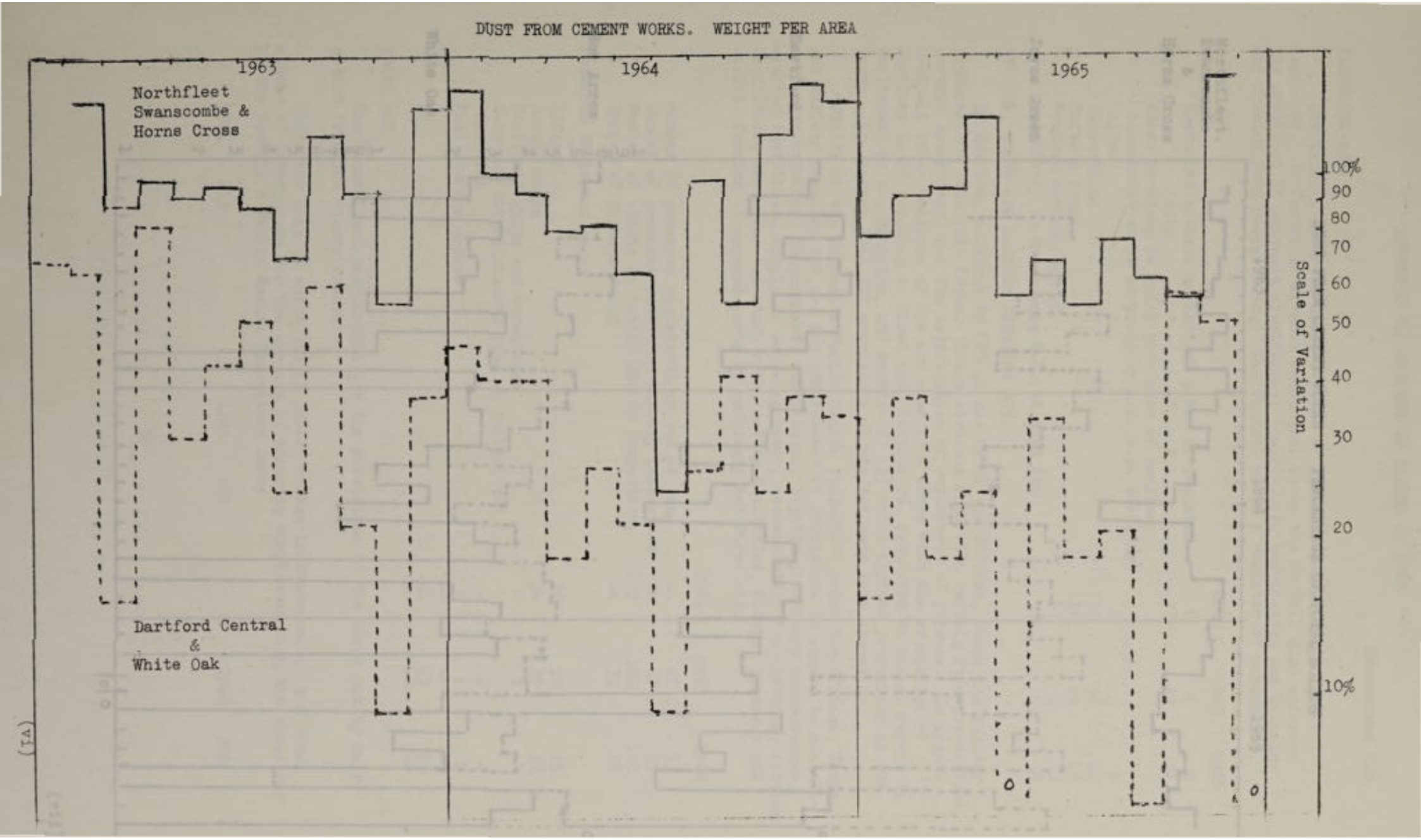
Month	% Dust from cement works		
	1963	1964	1965
HOOKS GREEN			
Jan		77	82
Feb	94	70	94
Mch	77	80	97
Apl	85	73	62
May	90	90	45
June	85	74	89
July	90	78	72
Aug	66	73	73
Sept	94	65	61
Oct	78	80	43
Nov	63	86	75
Dec	90	92	63
	976+	977	796
BRANDCROFT			
Jan	74	85	72
Feb	80	65	72
Mch	69	69	64
Apl	73	55	54
May	74	55	55
June	73	54	27
July	79	57	59
Aug	66	61	55
Sept	82	65	72
Oct	85	73	67
Nov	81	85	74
Dec	84	79	69
	987	764	747
NORTHFLEET			
Jan	87	73	70
Feb	80	68	70
Mch	73	79	63
Apl	86	44	60
May	89	46	52
June	80	55	50
July	84	47	37
Aug	66	52	62
Sept	76	55	47
Oct	66	58	60
Nov	54	81	56
Dec	80	74	
	927	677	626+

DUST FROM CEMENT WORKS

MONTHLY TOTALS OF BARGFORD CENTRAL AND ROYLE GAS GAUGES

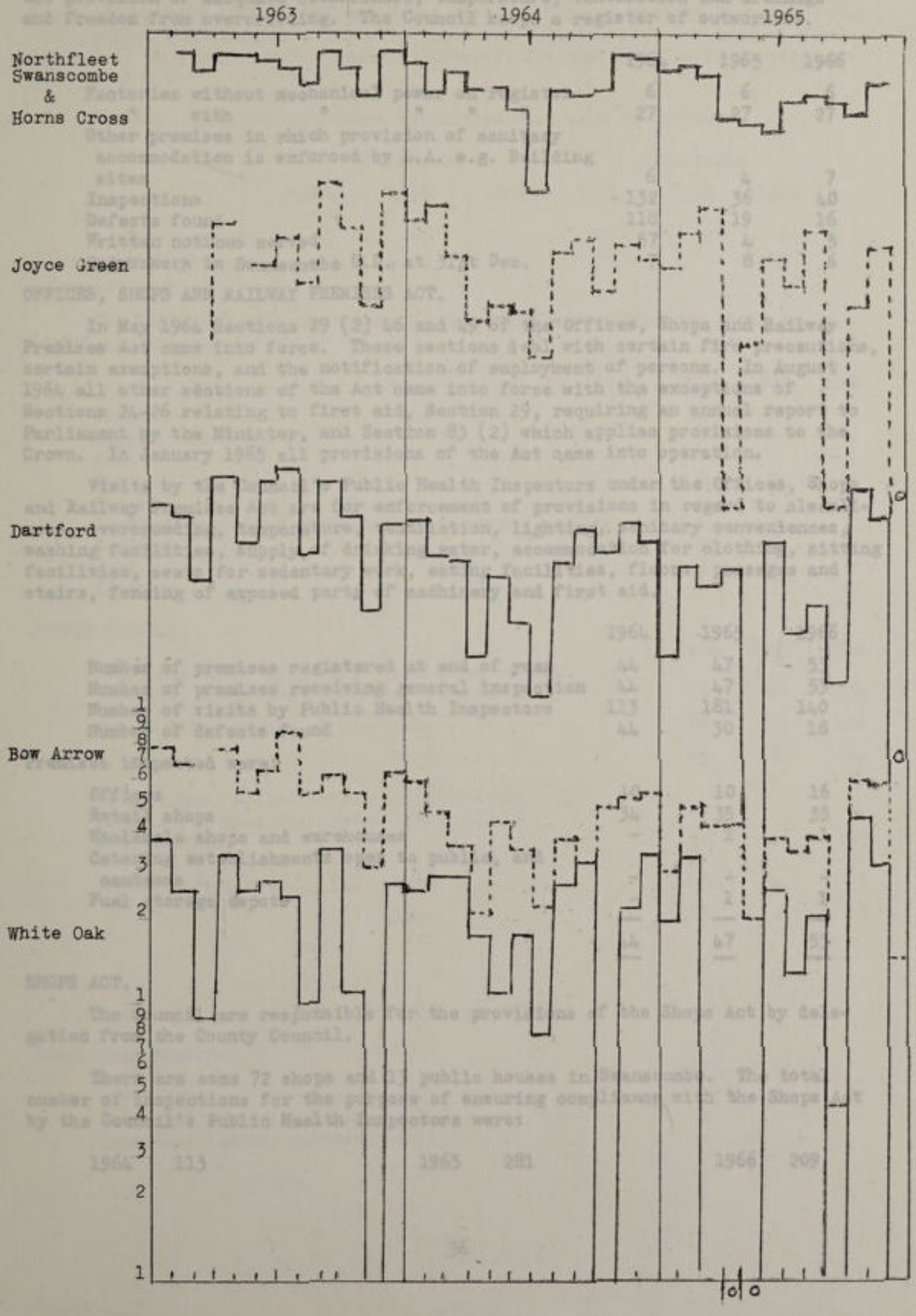
Month	1963	1964	1965
Jan	22	15	5
Feb	21	13	12
Mch	3	15	6
Apl	26	6	8
May	20	9	0
June	14	7	12
July	17	3	6
Aug	8	9	7
Sept	20	13	2
Oct	7	8	19
Nov	3	12	17
Dec	12	11	0
	165	119	95


DUST FROM CEMENT WORKS. WEIGHT PER AREA
Jan
Feb
Mch
1963
1964
1965
NORTHFLEET
SWANSCOMBE
HORNS CROSS
JOYCE GREEN
DARTFORD CENTRAL
BOW ARROW
WHITE OAK
10
7
6
5
4
3
2
1
0.5
(v)


DUST FROM CEMENT WORKS. WEIGHT PER AREA
1963
1964
1965
Northfleet
Swanscombe &
Horns Cross
Dartford Central
&
White Oak
Scale of Variation
100%
90
80
70
60
50
40
30
20
10%
0
0
(TA)

Scale of Variation
1961
1962

DUST FROM CEMENT WORKS - PERCENTAGE OF TOTAL SOLIDS



Swanscombe U.D.

FACTORIES ACT.

The Council enforces the provision of sanitary conveniences in all factories. In factories without mechanical power the Council also enforces the provision of adequate cleanliness, temperature, ventilation and drainage and freedom from overcrowding. The Council keeps a register of outworkers.

	1964	1965	1966
Factories without mechanical power on register	6	6	6
" with " " " "	27	27	27
Other premises in which provision of sanitary accommodation is enforced by L.A. e.g. Building sites	6	4	7
Inspections	132	36	40
Defects found	118	19	16
Written notices served	57	4	5
Outworkers in Swanscombe U.D. at 31st Dec.	7	8	6

OFFICES, SHOPS AND RAILWAY PREMISES ACT.

In May 1964 Sections 29 (2) 46 and 49 of the Offices, Shops and Railway Premises Act came into force. These sections deal with certain fire precautions, certain exemptions, and the notification of employment of persons. In August 1964 all other sections of the Act came into force with the exceptions of Sections 24-26 relating to first aid, Section 29, requiring an annual report to Parliament by the Minister, and Section 83 (2) which applies provisions to the Crown. In January 1965 all provisions of the Act came into operation.

Visits by the Council's Public Health Inspectors under the Offices, Shops and Railway Premises Act are for enforcement of provisions in regard to cleanliness, overcrowding, temperature, ventilation, lighting, sanitary conveniences, washing facilities, supply of drinking water, accommodation for clothing, sitting facilities, seats for sedentary work, eating facilities, floors, passages and stairs, fencing of exposed parts of machinery and first aid.

	1964	1965	1966
Number of premises registered at end of year	44	47	53
Number of premises receiving general inspection	44	47	53
Number of visits by Public Health Inspectors	113	181	140
Number of defects found	44	30	18
Premises inspected were:			
Offices	10	10	16
Retail shops	34	35	35
Wholesale shops and warehouses	-	1	1
Catering establishments open to public, and canteens	-	-	-
Fuel storage depots	-	1	1
	44	47	53

SHOPS ACT.

The Council are responsible for the provisions of the Shops Act by delegation from the County Council.

There are some 72 shops and 13 public houses in Swanscombe. The total number of inspections for the purpose of ensuring compliance with the Shops Act by the Council's Public Health Inspectors were:

1964 113 1965 281 1966 209

APPENDIX VII HYGIENE OF PLACES OF WORK

Swanscombe U.D.

FACTORIES ACT.

The Council enforces the provision of sanitary conveniences in all factories. In factories without mechanical power the Council also enforces the provision of adequate cleanliness, temperature, ventilation and drainage and freedom from overcrowding. The Council keeps a register of outworkers.

	1964	1965	1966
Factories without mechanical power on register	6	6	6
" with " " "	27	27	27
Other premises in which provision of sanitary accommodation is enforced by L.A. e.g. Building sites	6	4	7
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OFFICES, SHOPS AND RAILWAY PREMISES ACT.

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Visits by the Council's Public Health Inspectors under the Offices, Shops and Railway Premises Act are for enforcement of provisions in regard to cleanliness, overcrowding, temperature, ventilation, lighting, sanitary conveniences, washing facilities, supply of drinking water, accommodation for clothing, sitting facilities, seats for sedentary work, eating facilities, floors, passages and stairs, fencing of exposed parts of machinery and first aid.

	1964	1965	1966
Number of premises registered at end of year	44	47	53
Number of premises receiving general inspection	44	47	53
Number of visits by Public Health Inspectors	115	181	140
Number of defects found	44	30	18

Premises inspected were:

Offices	10	10	16
Retail shops	34	35	35
Wholesale shops and warehouses	-	1	1
Catering establishments open to public, and canteens	-	-	-
Fuel storage depots	-	1	1
	44	47	53

SHOPS ACT.

The Council are responsible for the provisions of the Shops Act by delegation from the County Council.

There are some 72 shops and 15 public houses in Swanscombe. The total number of inspections for the purpose of ensuring compliance with the Shops Act by the Council's Public Health Inspectors were:

1964	113	1965	281	1966	209

APPENDIX VIII DISINFECTION, DISINFESTATION & RODENT CONTROL

Swanscombe U.D.

DISINFECTION. Cleansing Station.

During the years under review Swanscombe Urban District Council continued their arrangement with Northfleet Urban District Council whereby facilities for disinfection and disinfestation of persons and articles were provided by North - fleet U.D. on a rechargeable basis. Transport for the articles is provided by Northfleet U.D.

In 1964, 1965 and 1966 these facilities were used as follows:-

	Northfleet			Swanscombe		
	1964	1965	1966	1964	1965	1966
Tuberculosis	1	-	-	-	-	-
Scabies	-	-	-	-	-	-

DISINFESTATION.

The following were the number of occasions when advice was given or disinfestation carried out:-

	1964	1965	1966
Wasps	4	8	3
Maggots and flies	1	-	-
Bees	-	-	2
Bed bugs	3	2	2
Fleas	-	1	-
Beetles, including cockroaches and carpet beetles	1	-	1
Woodworm	1	1	-
Ants	3	2	-
Crickets	-	1	-

RODENT CONTROL.

			1964	1965	1966
Total number of properties (including nearby premises) inspected following notification			55	85	134
Number infested by	(i)	Rats	38	70	102
	(ii)	Mice	15	11	32
Total number of properties inspected for rats and/or mice for reason other than notification			10	42	127
Number infested by	(i)	Rats	5	34	1
	(ii)	Mice	3	1	7

APPENDIX IX NOISE

Complaints received:

	1964	1965	1966
Ice cream vendor's chimes	-	1	-
Domestic: radios, parties, etc.	-	-	1

SWANSCOMBE URBAN DISTRICT COUNCIL

PUBLIC HEALTH COMMITTEES

1964-1965

Clr. J. Backhouse
" V. E. Bishop
" T. Bodle (Chairman)
" C. W. Butcher
" P. Connolly
" Mrs. I. Davidson
" W. L. Davidson J.P.
" G.C. Hammond
" W. A. Hicks
" A. H. Higgins
" W. O. Keary
" J. T. Mitchell
" L. R. J. Outred
" L. T. Owen
" D. J. Smith
" Mrs. G. M. Wells
" P. J. Wells
" Mrs. M. J. Wright

1965-1966

Clr. J. Backhouse
" S. A. Bacon
" T. Bodle O.B.E.
" C. W. Butcher
" P. Connolly
" Mrs. I. Davidson
" G. C. Hammond
" S. Hearn
" W. A. Hicks
" A. H. Higgins
" W. O. Keary
" P. G. Melvin
" J. T. Mitchell
" L. T. Owen J.P.(Chairman)
" Mrs. M.B.B. Prout
" A. J. Rayfield
" D. J. Smith
" Mrs. M. J. Wright

1966-67

Clr. J. Backhouse
" S. A. Bacon
" T. Bodle O.B.E.
" C. W. Butcher
" P. Connolly J.P. (Chairman)
" Mrs. I. Davidson
" G. C. Hammond
" S. Hearn
" W. A. Hicks
" A. H. Higgins
" W. O. Keary
" P. G. Melvin
" J. T. Mitchell
" L. T. Owen
" Mrs. M.B.B. Prout
" A. J. Rayfield
" D. J. Smith
" Mrs. M. J. Wright

CLERK TO THE COUNCIL

Mr. F. L. Sturt

PUBLIC HEALTH OFFICERS

Medical Officer of Health (part time)	J. H. Hudson
Chief Public Health Inspector and Surveyor	A. J. Munford
Public Health Inspector (part time)	F. W. Sharpe (Retired June 1964)
Public Health Inspector	W. Ramsden (July 1964 - Jan.1965)
	A. R. Burchmore (February 1965 -)
Clerical Assistants(part time)	Mrs. S. Manners
	Miss B. Woodard (July 1964 - Nov. 1966)